



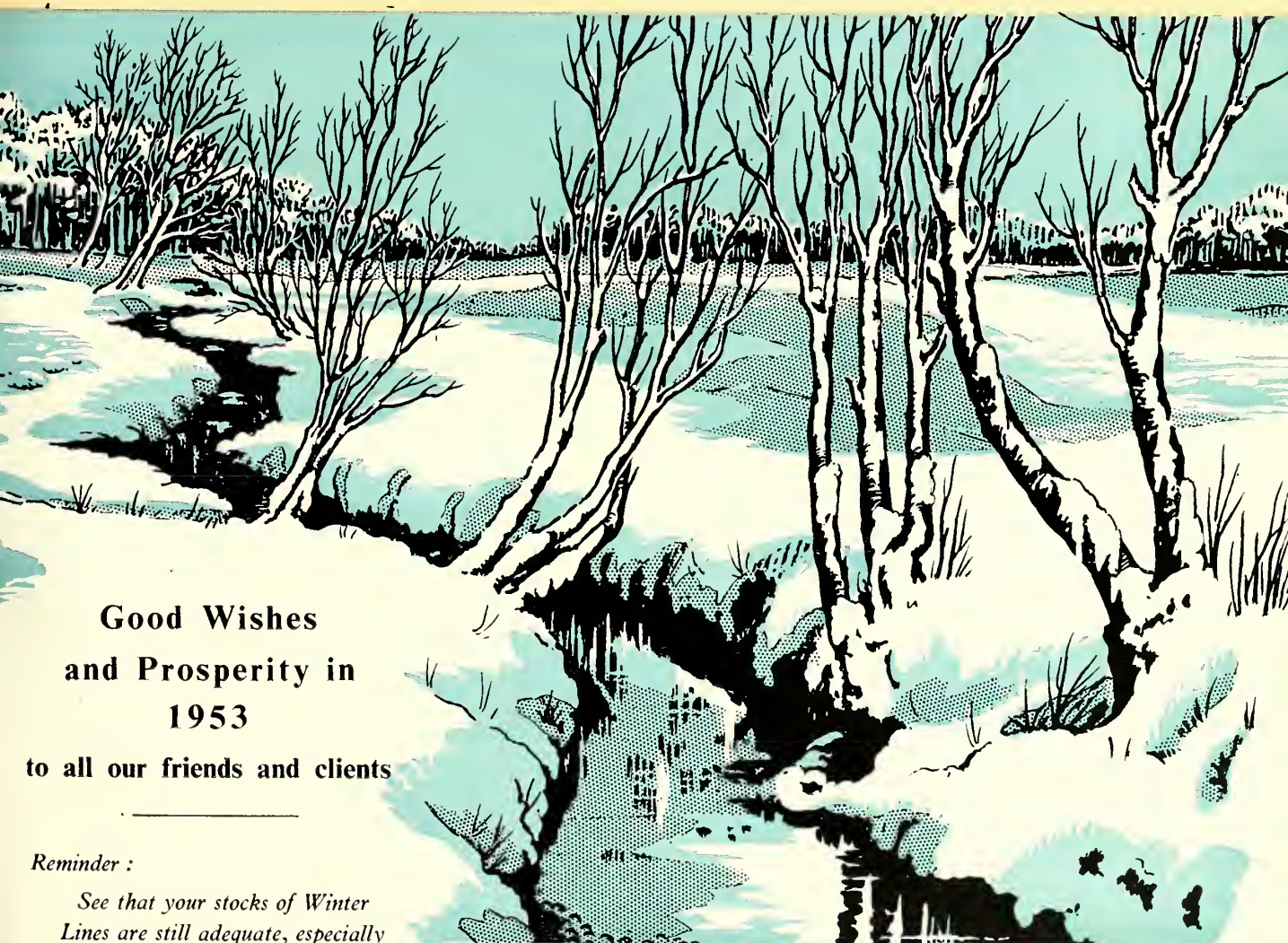




# *The* CHEMIST<sub>AND</sub> DRUGGIST

For Retailer, Wholesaler and Manufacturer

JANUARY 17 1953



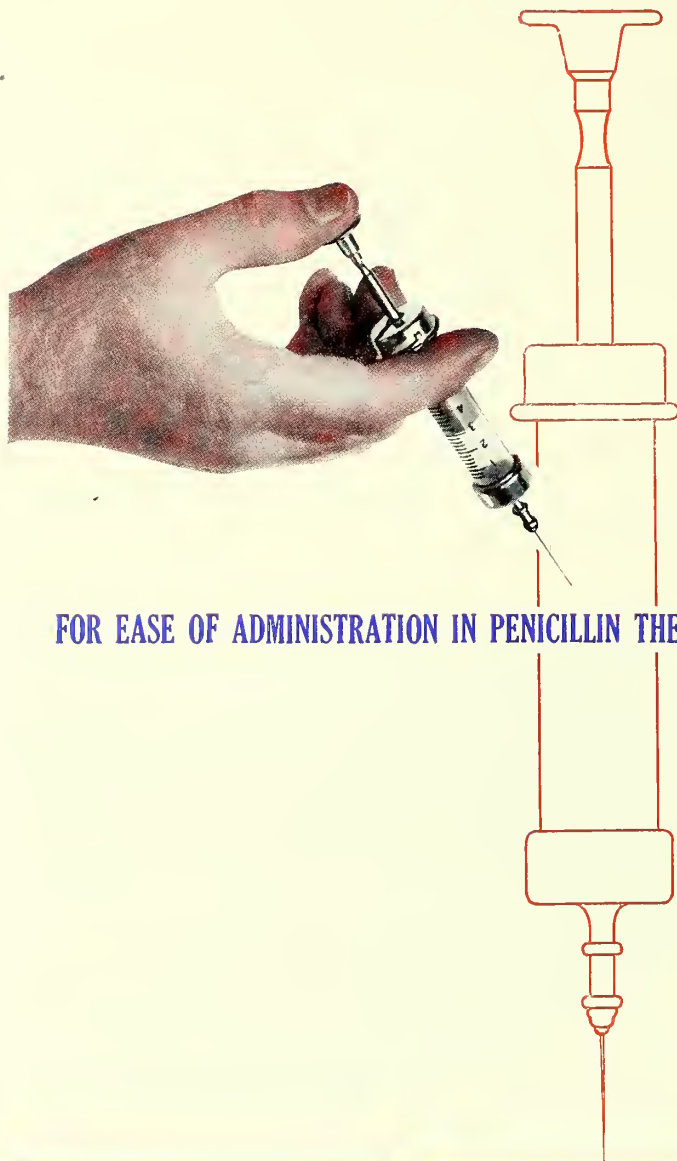
Good Wishes  
and Prosperity in  
1953  
to all our friends and clients

*Reminder :*

*See that your stocks of Winter  
Lines are still adequate, especially  
the delicious Blackcurrant and  
Ipecacuanha Cough Syrup and  
the Wild Cherry Pectoral*

**BURGOYNE BURBIDGES**  
Established 1741. & COMPANY LIMITED, LONDON. E.6





## FOR EASE OF ADMINISTRATION IN PENICILLIN THERAPY

*'Distaquaine' brand preparations of procaine penicillin G for administration in aqueous suspension are designed to make penicillin therapy more convenient to practitioner and patient. The prolonged effective action of procaine penicillin G makes frequent injections unnecessary. In the majority of infections single daily injections are adequate. 'Distaquaine' brand preparations are easily prepared and administered. There is little or no pain on injection and the equipment is easily cleaned after use.*

### 'DISTAQUAINE' G

### 'DISTAQUAINE' FORTIFIED

### 'DISTAQUAINE' SUSPENSION

*Distributed by*

ALLEN & HANBURYS LTD.

BRITISH DRUG HOUSES LTD.

BURROUGHS WELLCOME & CO.

EVANS MEDICAL SUPPLIES LTD.

IMPERIAL CHEMICAL (PHARMACEUTICALS) LTD.

PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD.

#### **'DISTAQUAINE' G**

vials of 300,000, 900,000 and 3,000,000 units

#### **'DISTAQUAINE' FORTIFIED**

vials of 400,000, 1,200,000 and 4,000,000 units

#### **'DISTAQUAINE' SUSPENSION**

vials of 10 ml. (300,000 units per ml.)

*'DISTAQUAINE', trademark, is the property of the manufacturers*

*Manufactured by:*

THE DISTILLERS COMPANY (BIOCHEMICALS) LIMITED, SPEKE, LIVERPOOL



# Far more doctors are prescribing Drenalgin than ever before!



*Now in tubes at 4/-, as well  
as in the regular jar at 9/6d,  
including Purchase Tax*

In the last few months, prescriptions for Drenalgin — the anti-spasmodic cream — have doubled, and are still mounting steadily. Doctors are finding it a truly efficacious massage cream, and the new 4/- tube has proved exceedingly popular.

- Contains adrenaline, ephedrine and camphor in a special base which quickly penetrates the skin
- Produces rapid relaxation of muscular spasm with relief from pain
- Leads to quick and permanent improvement in the majority of "Rheumatic" conditions

#### FORMULA

ADRENALINE B.P.	- - - - -	0.02%
EPHEDRINE HYDROCHLOR B.P.	- - - - -	1.0%
CAMPHOR B.P.	- - - - -	2.50%
BASE AD	- - - - -	100.00%

#### TRADE PRICES

Jars	... 63/- per dozen, plus purchase tax
Tubes	... 28/6 per dozen, plus purchase tax

## DRENALGIN IS NOT ADVERTISED TO THE PUBLIC

Make sure your stocks of Drenalgin are sufficient. If they are not, get in touch with your usual wholesaler today.

# *Drenalgin*

## *Stanning Proprietaries Ltd.*

SALES OFFICE: 11 WATERLOO PLACE, LONDON, S.W.1.



A new combination

# C O D I S

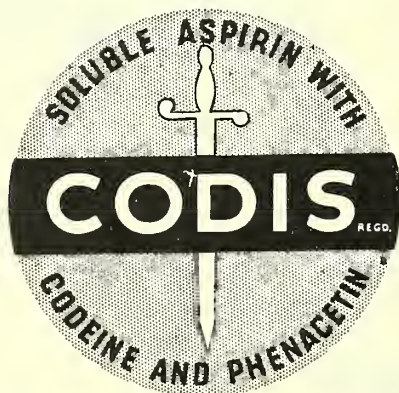
REGD.

soluble aspirin with  
codeine phosphate and phenacetin

Codis presents a familiar grouping of analgesic drugs; aspirin, phenacetin, codeine phosphate; with an important advantage. The "aspirin" in Codis is rendered soluble, as in 'Solprin'

Placed, uncrushed, in water, a Codis tablet disperses in a matter of seconds to form a solution of calcium aspirin and codeine phosphate with finely suspended phenacetin. The chance of irritation of the gastric mucosa by undissolved particles of aspirin is thus minimised.

Codis is recommended for all those conditions for which Tab. Codein. Co. B.P. would be prescribed. It has the added advantages of greater ease of administration and far less likelihood of aspirin intolerance, while the rapid absorption of the soluble aspirin promotes prompt relief.



#### COMPOSITION

*Each Codis tablet contains: Acid. Acetylsalicyl. B.P. 4 grs., Phenacet. B.P. 4 grs., Codein Phosph. B.P. 0.125 grs., Calc. Carb. B.P. 1.2 grs., Acid. Cit. B.P. (Exsic.) 0.4 grs., Excip. ad. 11.45 grs.*

Codis is not advertised to the public

DISPENSING PACKS (Purchase Tax free) Hospital bottles of 400 tablets 18/6 each. Prescription box of 300 tablets in distinctive gold foils of 6 tablets each 16/6 per box.

PUBLIC SIZES Packs of 20 tablets 2/9 each inc. P.T.





*Best Ever!*

A gratifying and popular verdict on the current advertising !  
And now new guns are brought to bear in the form of weekly programmes from

*Radio Luxembourg*

continuing right through to the end of April.

Book your window displays and show material and

*Order Now*

Bonus in kind can only be allowed when one or more of the standard parcels E, F, G, J, L and P are ordered. Apart from the bonus parcels, other quantities of Crookes Halibut Oil and Capsules and Halibut Oil Emulsion can always be supplied at normal discount. Orders over £2 nett, carriage paid.

Standard Bonus Parcels			
PARCEL	39 x 25 Capsules @ 2/6 Retail		
E	Total retail value	£4	17 6
	Cost of parcel	£3	0 9
PARCEL	26 x 5 m.l. Drops @ 2/- Retail		
F	Total retail value	£2	12 0
	Cost of parcel	£1	12 5
PARCEL	13 x 15 m.l. Drops @ 5/- Retail		
G	Total retail value	£3	5 0
	Cost of parcel	£2	0 6
PARCEL	13 x 30 m.l. Drops @ 9/- Retail		
J	Total retail value	£5	17 0
	Cost of parcel	£3	12 11
PARCEL	13 x 100 Capsules @ 8/6 Retail		
L	Total retail value	£5	10 6
	Cost of parcel	£3	8 10
PARCEL	13 x 15 m.l. Infants' Emulsion @ 3/6 Retail		
P	Total retail value	£2	5 6
	Cost of parcel	£1	8 4



**PATA**

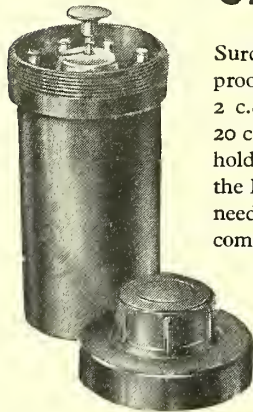
# CROOKES HALIBUT OIL

THE CROOKES LABORATORIES LIMITED • PARK ROYAL • LONDON N.W.10



**SURQUAL**  
REGD

## PLASTIC SYRINGE CASES



Surqual plastic syringe cases, spirit proof, made in four sizes to hold 1 or 2 c.c. syringe and 5 c.c., 10 c.c. and 20 c.c. syringes. The pocket size will hold syringe and needle complete and the larger sizes hold syringe and eight needles. Made from durable plastic, completely spirit proof. Ideal for doctors, hospitals, diabetics, etc., the 1 or 2 c.c. size can be supplied with a base for standing on desk.

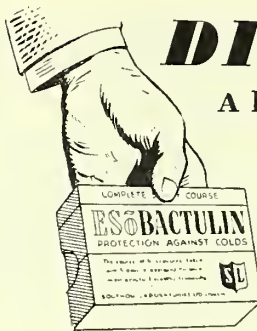


DETAILS FROM

**SURGICAL EQUIPMENT SUPPLIES LTD.**  
WESTFIELDS ROAD, LONDON, W.3

T.A.509R

## DISPLAYS ARE BRINGING GOOD SALES



★Are you taking advantage of the weather—and the Bonus Terms for **ESōBACTULIN?**

Display Now!

6 Capsules taken over 5 days give most people 3 months' immunity from COLDS.



RETAIL 8/3  
(inc. tax)

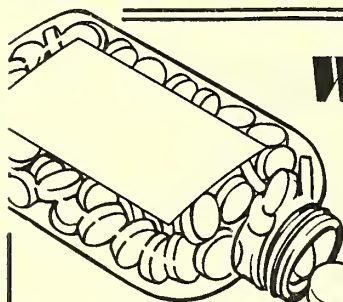
33 1/3% DISCOUNT

★ PLUS BONUS  
13 to the dozen

SUPPLIED THROUGH YOUR WHOLESALER



SOUTHON LABORATORIES LTD., 88 Upper Richmond Road, London, S.W.15



We are  
actual  
makers

*We specialise in*  
**quality ASPIRIN**  
*tablets*

**PACKED OR IN BULK  
BEST PRICES  
FINEST QUALITY  
PROMPT DELIVERY**

also SACCHARIN TABLETS—still  
the lowest price for large or  
small quantities



*The*

**WALLIS LABORATORY LIMITED**

58 KING GEORGE'S AVENUE, WATFORD, HERTS.

Telephone: WATFORD 2812

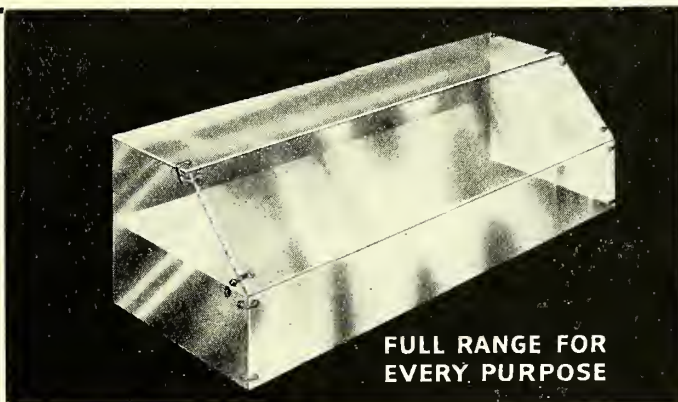


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Enterprising  
display under  
glass provides  
protection  
from  
pollution  
and pilfering

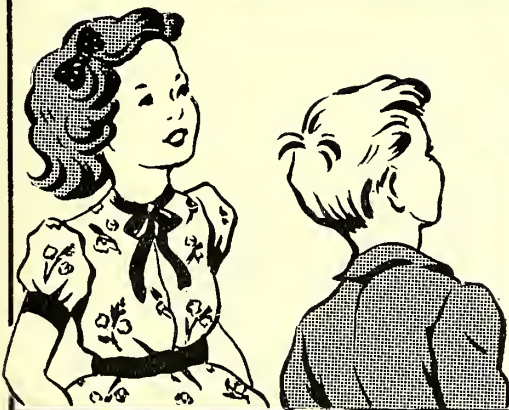


FULL RANGE FOR  
EVERY PURPOSE

They can see  
but cannot  
touch



"Because my  
goods are  
cleaner and more  
attractively  
displayed  
MY BUSINESS IS  
INCREASING"



MADE & DELIVERED BY

**WATERHOUSE**  
*Makers of Fine Shop Fittings*



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**IT'S TIME TO  
START SHOWING  
"GRIPS" NOW!**

—especially now that the pre-war vacuum sealed tin is back again retailing at 1/1½d. per tin including P.T. The usual 2 lb. and 4½ lb. tins are of course still available selling at 1/3½d. per quarter including P.T. Be ready for the "throaty" and "chesty" customers asking for "GRIPS". Order now from your usual wholesaler.

**"GRIPS"**  
**"FIRST AID" PASTILLES**  
Made by:—J. W. LIGHTBOWN & SONS LTD., ACCRINGTON, LANCs.



## BACKGROUND TO BARBITURATES



*Aerial view of the Geigy factory, Manchester*

Modern up-to-date manufacturing plant, constantly in operation, vigilant research laboratories admirably equipped . . . that is the impressive, present-day background to the Geigy production unit. Barbiturates are produced at the Geigy factory in Manchester to exacting standards of quality, and in a steadily expanding range.

PHENOBARBITONE B.P.

PHENOBARBITONE SODIUM B.P.

BARBITONE B.P.

BARBITONE SODIUM B.P.

BUTOBARBITONE B.P.C.

AMYLOBARBITONE B.P.C.

AMYLOBARBITONE SODIUM B.P.C.

CYCLOBARBITONE B.P.C.

CYCLOBARBITONE CALCIUM

HEXOBARBITONE B.P.

METHYLPHENOBARBITONE B.P.

QUINALBARBITONE SODIUM B.P.



PHARMACEUTICAL LABORATORIES GEIGY LTD.

Rhodes,

Middleton,

MANCHESTER



# PILLS ↑ TABLETS



## Perfectly balanced products

Made possible by the pharmaceutically stabilised production methods of the COX organisation. There are special facilities for handling orders of any size. Bulk or packed PILLS and TABLETS—coated or uncoated—standard or special formulæ

*A Century of Progress weighs in YOUR favour*

**ARTHUR H. COX & CO. LTD.**  
BRIGHTON

**ELDON**  
VAPORISERS

P.A.T.A.

HALL FORSTER & CO. LTD.,  
NEWCASTLE UPON TYNE

For use with  
FENOLIN  
FLUID



**FERRIS & COMPANY, LTD.**  
BRISTOL

MANUFACTURING AND  
WHOLESALE CHEMISTS

The House in the West for all Chemists' Supplies. Send us your orders for prompt and careful attention.

**REGULAR ROAD DELIVERIES**  
in the West of England and S. Wales areas.

Telephone: BRISTOL 21381

Telegrams: FERRIS BRISTOL

**Show 'Elasto' — It Sells on Sight!**

**Elasto**  
THE BIOCHEMIC TABLET  
P.A.T.A.

ELASTO advertising is widespread and consistent. A steady demand for this fine product is being created at your very door. Link up with this vigorous campaign by reminding your customers that YOU can supply. Your PROFIT IS ONE SHILLING AND SEVENPENCE on each sale!

★ Show material free on request  
**NEW ERA LABORATORIES LTD.**  
CECIL HOUSE • HOLBORN VIADUCT • LONDON



IT'S THE  
**SPRING ACTION**  
 THAT SELLS THE

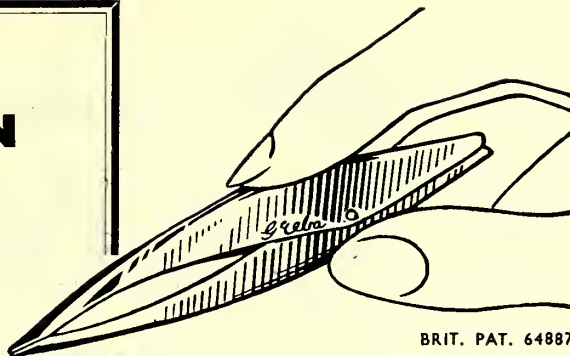


IT HOLDS THE MINUTEST ARTICLE  
 WITH AN UNFAILING GRIP

Trade Price

**18/-** DOZ. (Plus P.T.)

Packed in dozens for counter display



BRIT. PAT. 648873

Women everywhere are welcoming this new improved patented tweezer, because it really does grip without effort or tension. The "GREBA" is British made from High Grade steel with a Smooth Highly Polished Surface. Order from your usual Wholesaler.

Wholesale and Export Enquiries to:—

**ARCFIELD OPTICAL MANUFACTURING COMPANY, LIMITED.**

(Light Engineering Section)

53 Tottenham Court Rd., London, W.1

*Introducing*

**'TERCIN'**

**FOR MILD FORMS OF PAIN**

*"Aspirin and phenacetin are effective and useful, and a sedative effect is obtainable if a barbiturate is combined with them. . . . The reputation of codeine as a pharmacologically useful drug is at present waning, for the analgesic effect of the compound tablet of codeine B.P. is probably due more to its content of aspirin and phenacetin than to the  $\frac{1}{2}$  gr. (8 mg.) of codeine present. It is a weak analgesic even when given in full doses." (Brit.Med.J. 1952 (Oct. 25th) ii, p. 928)*

Tercin combines aspirin and phenacetin with a barbiturate. It is intended for the relief of all those mild forms of pain for which Tablets of Aspirin, Phenacetin and Codeine have hitherto been prescribed.

Its cost to the National Health Service is no greater than that of Tab. Codein. Co. B.P.

Tercin is available in tablets containing aspirin 5 grains, phenacetin 3 grains and butobarbitone  $\frac{1}{2}$  grain.

For dispensing only, in bottles of 200 at 5/6, and 1000 at 26/-

**THE BRITISH DRUG HOUSES LTD. LONDON N.1**

Tren/T/1



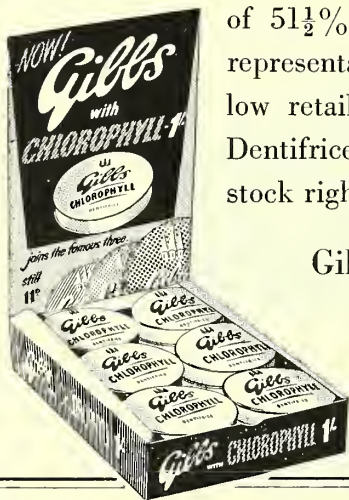
# Gibbs presents CHLOROPHYLL DENTIFRICE

To launch Gibbs Chlorophyll Solid Dentifrice in the gleaming white tins, Gibbs is offering you a display bonus of

## 14 for the price of 12—

**WHICH MEANS 51½% PROFIT FOR YOU!**

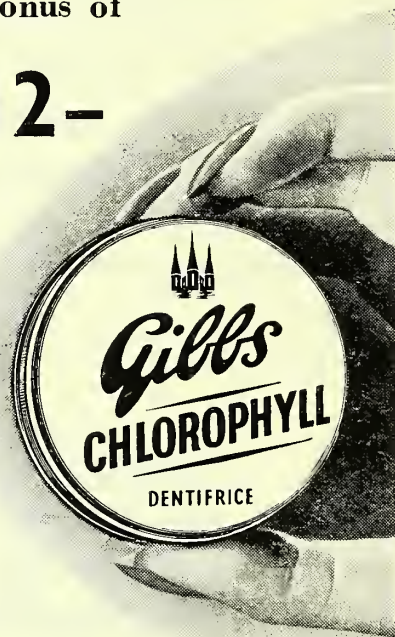
Take full advantage of Gibbs' double-the-normal launching bonus. IT MEANS A TOTAL PROFIT of 51½% (further details when our representative calls). And look at the low retail price of this Chlorophyll Dentifrice — only 1/-. Decide now to stock right up!



Gibbs Chlorophyll tins are packed in eye-catching

### DISPLAY OUTERS

for your counter



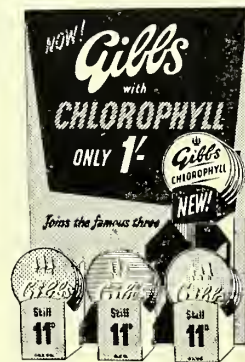
#### STILL THE OLD FAVOURITES!

For customers who prefer regular Gibbs Dentifrice there are still the popular red, green and blue tins at the popular price of 11d. (Gibbs Dentifrice with Chlorophyll — 1/-.)



#### NEW GIBBS DISPENSER SELLS ALL FOUR!

This easy-to-fill dispenser empties fast! Saves work, speeds sales — and takes up very little counter space.



GDT 357/940/85



# OLD FAVOURITES

for which there is still a demand and a good profit



## THE "MINSTER" BRAND PACKED PHARMACEUTICALS

### CHILDREN'S RASPBERRY COUGH LINCTUS

Bottles	Retail price inc. tax each	Purchase tax doz.	Trade price doz.
4 oz.	1/4½	3/-	9/-

### CHILL AND INFLUENZA MIXTURE

8 oz.	1/8	3/10	11/6
-------	-----	------	------

### SORE THROAT AND TONSILLITIS MIXTURE

8 oz.	2/3½	5/-	15/-
-------	------	-----	------

### IODISED THROAT TABLETS

Tins of 48 tablets  
6/- doz. plus 2/- P.T.  
Retail at 11d.

Tins of 72 tablets  
7/- doz. plus 2/4 P.T.  
Retail at 1/1



A PRODUCT OF

**Cuxson Gerrard  
& Co. Ltd.**  
**OLDBURY BIRMINGHAM**

Phone: BROADWELL 1355 (4 lines)

*A wonderful new  
addition to the  
Inecto range...*

## INECTO

### FOUR-IN-ONE SERIES

Specially prepared for dealing with drab or faded hair or just that *touch* of greyness. Colours permanently, brightens and conditions—in one application.

★ 11 lovely NEW shades:

- |                      |                  |
|----------------------|------------------|
| 14 Blue Black        | 19 Bright Auburn |
| 15 Dark Brown        | 20 Golden Brown  |
| 16 Medium Warm Brown | 21 Light Bronze  |
| 17 Light Chestnut    | 22 Honey Blonde  |
| 18 Ash Brown         | 23 Smoke Blonde  |
| 24 Haze Blue         |                  |

IN ATTRACTIVE HOME PACK

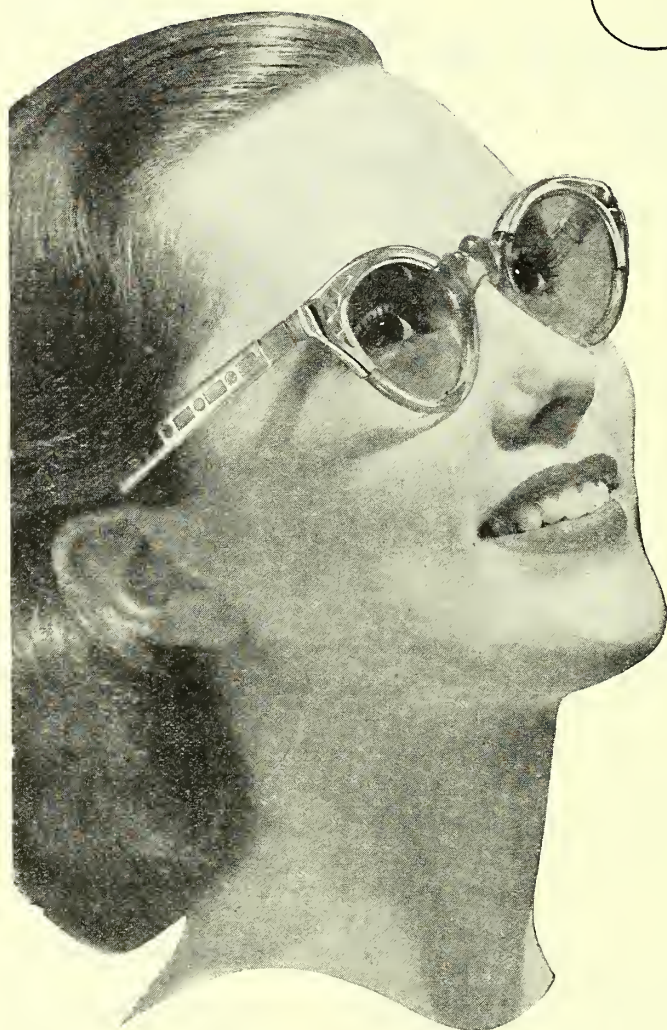
Price 5/- Wholesale (inc. 2s. 6d. P.T.), 6/- Retail

RAPIDOL LTD., 27 DOVER STREET, LONDON, W.1

Regent 7541 (12 lines)



# Flattery



You do more than sell eye-protection when you sell Thurgar Bollé sunglasses. You flatter someone's vanity and that's always good business.

Now is the time to act if you want to be sure of bumper sales of Thurgar Bollé Sunglasses during the Coronation season.

The intriguing range of 1953 models, fitted with Crookes precision lenses, will again set the fashion in protective eye-wear in all parts of the world.

Advertised in principal fashion and women's journals.

Order early from your wholesaler in time for Spring Trade.

NEW DESIGNS AND COLOURS  
FREE DISPLAY CABINETS

## Thurgar Bollé

### SUNGLASSES

*Such comfort - such elegance*

THURGAR BOLLÉ LTD,  
Telephone : Wellingborough 2415

ORIENT HOUSE,

WELLINGBOROUGH, NORTHANTS  
London Showrooms: 96 Regent Street, London, W.1



# PENICILLIN PREPARATIONS

LOZENGES · TABLETS · OINTMENTS · Etc.

*Aids to Dispensing Outfits of Creams and Drops*

**MANUFACTURED BY**



**DISTRIBUTED BY**

**MOORE MEDICINAL PRODUCTS LTD**

1 QUEENS TERRACE  
ABERDEEN. Tel: 27233

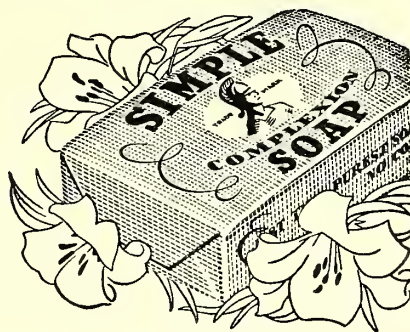
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LONDON, W.1. Tel: WELbeck 5718/9

Detailed Price List on Request.

pure soap — no perfume  
no colouring — no fillings

**THAT'S**

**“SIMPLE”  
SOAP**



*The Lily — the symbol of Purity*

**SALES ARE RAPIDLY GROWING**

Be prepared by holding a stock and take  
your share of this rapidly expanding line.

Advertising is regularly appearing in a wide  
range of Medical and Nursing Journals.

**AMPLE SUPPLIES — PROMPT DELIVERIES**

*Good Profits—reasonably priced. 6/- per dozen, plus 2/- P.T. Retail price 11d., showing a profit of 3d. per tablet.*

AVAILABLE THROUGH WHOLESALEERS OR DIRECT

**THE ALBION SOAP CO. LTD., 30-2 Thames Street, Hampton, Middx.**  
*Makers of the world famous Albion Milk and Sulphur Toilet Soap*



# ROTER

We are pleased to announce that supplies of Roter tablets will again be generally available throughout the country from about the middle of January.

Pharmacists are kindly requested to send in their orders through their usual wholesale channels or direct to:

**F.A.I.R. LABORATORIES LTD**

179 HEATH ROAD · TWICKENHAM · MIDDX

**GLANOID**

## AMISYN TABLETS

combining

**ACETOMENAPHTHONE**

and

**NICOTINAMIDE**

for

**THE TREATMENT OF  
CHILBLAINS**

•  
**EXEMPT FROM**

**PURCHASE TAX**

**THE ARMOUR LABORATORIES**  
(ARMOUR & COMPANY LTD)

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Telegrams: "Armosata-Phone," London

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for

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*The Seeds*

*With the Biggest Sales*

- Retailed in 2d. and 4d. High Class Pictorial Packets.
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- National Advertising

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Pin this to your Bill-head  
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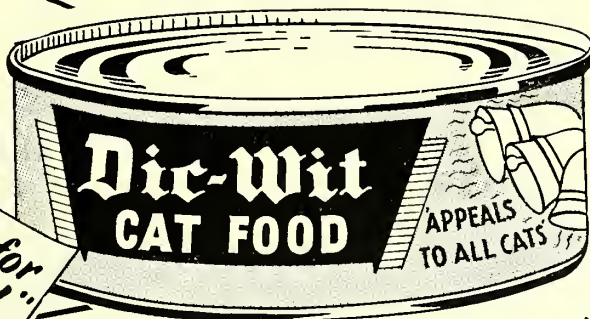


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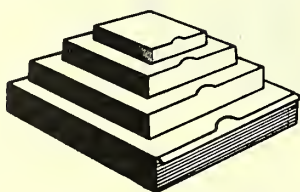
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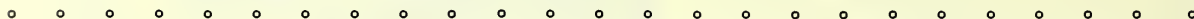
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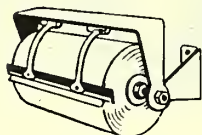
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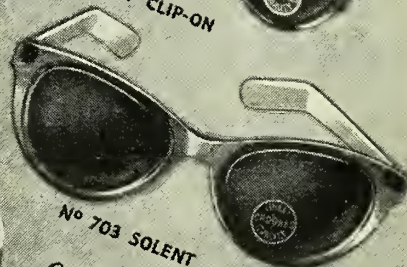
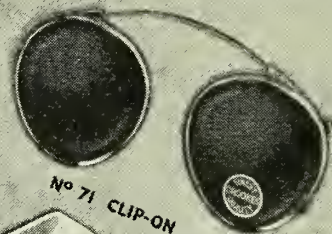
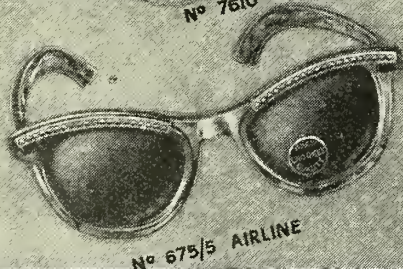
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BRAND

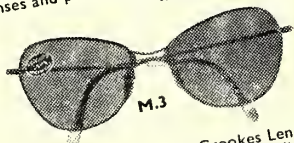
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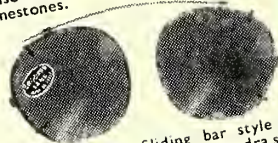
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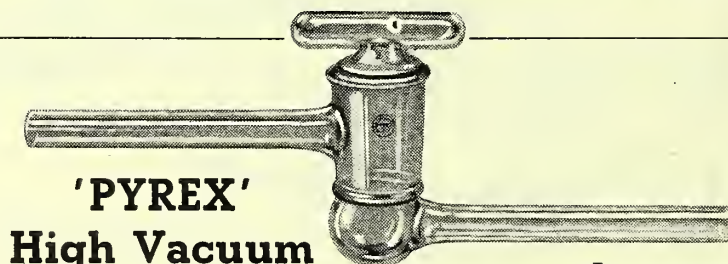
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# THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and  
all sections of the drug, pharmaceutical and  
fine chemical, cosmetic, and allied industries.

*Official organ of the Pharmaceutical Society of Ireland  
and the Pharmaceutical Society of Northern Ireland*

Volume 159.

January 17, 1953

No. 3804

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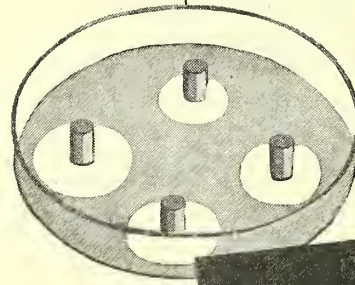


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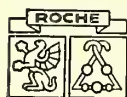
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# The CHEMIST AND DRUGGIST

Volume 159

JANUARY 17, 1953

No. 3804

## Three Councils at Dinner

### CHEMISTS FEDERATION ACT AS HOSTS

FOR the first time in pharmaceutical history the Council of the Pharmaceutical Society, the Executive of the National Pharmaceutical Union and the Chemists Federation Council dined together in London on January 7.

They were there at the invitation of the Chemists Federation, whose "happy gesture," in the words of the Society's president, was associated with the happy nature of its president for the year: Mr. W. T. Elder, Aberdeen. Also present as guests were the president of the Ulster Chemists' Association and chairman of the C.F. Committee of Northern Ireland (Mr. W. R. McNabb), the chairman of the Scottish C.F. Committee (Mr. A. Wilson Strachan), and the president of the Scottish Pharmaceutical Federation (Mr. W. Spence Culbert) and senior officials of the organisations represented.

The toasts were to the three governing bodies. MR. S. M. LENNOX (vice-president, C.F.) proposed "The Council of the Pharmaceutical Society." He said that the Federation regarded the occasion as cementing friendship between the three organisations, and that co-operation was vitally important in view of difficulties around the corner. MR. W. J. TRISTRAM (president, Pharmaceutical Society) replied, addressing his remarks to "Mr. Lennox, Mr. President and Chemist Friends."

The importance of pharmacy as a filter between prescriber and patient, between Government and consumer, and in defence of the parties between them was stressed by MR. NORMAN DEWEY in proposing the toast of the N.P.U. Executive. C.F. had shown the way during a period of trade depression to give a fair deal to consumers, themselves unable to adjudicate between pharmaceutical products, and to chemists. C.F. gratefully acknowledged its debt to its parent the National Pharmaceutical Union with whose support it could go surefootedly forward. MR. D. W. HUDSON's reply as chairman of the N.P.U. was a warning that pharmacy was beginning to show signs of too much organisation and too little concern for the public. There was also a danger of over-specialisation.

MR. H. N. Linstead, O.B.E., M.P. (a secretary of the Pharmaceutical Society) proposed "The C.F. Council." He said the innovation of the dinner was something other bodies might feel constrained to copy. Pharmacy was

assailed from outside more than many seemed to realise. There should not at the present time be disagreement in the profession, and more such off-the-record reunions would help to put differences into the background and bring forward points of agreement. MR. W. T. ELDER, who replied, expressed pride in being the first Scottish president of C.F., which was raising the standard of chemists' goods and of their displays. It now had 150 manufacturer members.

## CAMERA-USERS TO BE Exhibits to Schoolboys

AT the Schoolboys' Own Exhibition, London, December 31, 1952, to January 10, schoolboys and adults queued to see a series of expositions of photography by JOHNSONS OF HENDON, LTD., London. The stand was divided into a number of cubicles in each of which a lecture was followed by practical demonstrations. Visitors were first introduced to the working of a box

camera and shown common faults. In the second cubicle a film showed the use of a daylight developing tank. Other demonstrations dealt with contact printing (schoolboys being invited to make their own prints) and enlarging. In the last cubicle a representative of the Photographic Dealers' Association expounded the advantages of flash photography. Messrs. Johnsons had a second stand at which apparatus used by wholesale photographic finishers was exhibited, including developing tanks, a film-drying cabinet (to deal with forty-eight films in forty minutes), a high-speed pedal-operated printer (thirty per minute) and a super gloss print-dryer (in operation). DOLLAND & AITCHISON, LTD., London, showed cameras and accessories, and the GENERAL ELECTRIC CO., LTD., London, with Philips Electricals, Ltd., London, showed flash bulbs.

## WORLD DRUG NAMES

### Deletions from List

THE subcommittee on non-proprietary names of the World Health Organisation's Expert Committee on the International Pharmacopoeia has withdrawn the following from its list of International non-proprietary names: ethylurethanum (replaced by urethanum); propiodonum (replaced by propylidodonum); synephrinum ((±) methylaminomethyl - (4 - hydroxyphenyl)-carbinol). (See also *C. & D.*, January 10, p 44.)



**PHOTOGRAPHERS OF THE FUTURE:** Keen observers at a demonstration of enlarging given by Johnsons of Hendon, Ltd., at the recent Schoolboys' Own Exhibition, London.



## ANALYSIS COURSE

THE Royal Institute of Chemistry has organised a summer school in analytical chemistry to be held in London from September 6 to 12. The school is open to fellows and associates of the Royal Institute and to members of the Society of Public Analysts and Other Analytical Chemists. It includes courses on organic, metallurgical and biochemical analyses. The fee for the summer school is £3 and further information may be had from Mr. G. Murfitt, Metals & Methods, Ltd., Langley, Slough, Bucks.

## EXAMINATION RESULTS

THE following candidates satisfied the examiners in the Chemist and Druggist Qualifying examination held by the Pharmaceutical Society in England and Wales in December 1952:—

Abdel-Wahab, Hamed A. I., Cairo  
Abrams, Bridget C., Oxford  
Atkinson, John H., Birchfields  
Baker, Jean D., Southampton  
Baldock, Thomas L., Sittingbourne  
Barratt, Peter, North Hykeham  
Bennett, Norman M., Streethly  
Bishop, Peter, Maidstone  
Bogle, Alexander C., Lanark  
Brookes, Edith M., Brecon  
Cain, Charles D., Pulrose, I.O.M.  
Davies, Ralph F., Wrexham  
Dean, Rodney A., Wimbourne  
Elliott, Geoffrey A. L., Pinhoe  
Foster, John F., Lincoln  
Garrett, Kathleen M., Lancing  
Gillings, Charles L., Ipswich  
Heyes, Doris Josephine B., Tiverton  
Horner, Kenneth W., Mupperley  
Jennings, Dorothy A., Cowley  
Johans, James R., Scunthorpe  
Jones, David R. C., Neath  
Jones, John H., Port Talbot  
Jones, Mair, Swansea  
Kear, Mostyn E. J., Coleford  
Kitt, Eileen R. V., Crouch End  
Knights, Richard W. J., Kessingland  
Latham, Dorothy, Smethwick  
Malins, Elizabeth J., Bournemouth  
Marden, George A. C., Wembley  
Nazroo, Issa A., London  
O'Callaghan, Eileen R., Harrow Weald  
Owen, Mary E., Fishguard  
Payne, Margaret S., Plymouth  
Pearn, Thelma M., Brislington  
Phillips, Bernard J., Shanklin  
Phillips, Margaret J., Barry  
Pollard, Maurice L., Leicester  
Rood, Maurice J. L., Southampton  
Scrivens, Arthur B., Monmouth  
Shepherd, Stanley E., Droylesden  
Shuttleworth, Alan G., Manchester  
Steel, Kenneth J., Peterborough  
Sweet, Gerald, W., Evesham  
Sykes, Fred, Fleetwood  
Webster, Tom, Laindon  
Wilkinson, David C., Leamington Spa  
Wimborne, Jonathan D., Bow

IN Scotland, the following candidates satisfied the examiners:—

Anderson, Isobel, Fife  
Atkins, Brian V., Newcastle-upon-Tyne  
Brockis, Eric H., Wakefield  
Carr, Ellis H., Leeds  
Carr, William H., Tipton  
Clayton, John D., West Hartlepool  
Coogan, Elizabeth V., Giffnock  
Dishman, Alan R. C., Hyde  
Duffy, Andrew L., Glasgow  
Giblin, Margaret P., St. Helens  
Graham, Leslie, Prestwick  
Hanna, Henry B., Liverpool  
Harwood, William G., Bolton  
John, Thomas, Castle Douglas  
Johnson, Joan S., Bramhall  
Letherman, Henry, Manchester  
McIntosh, Barbara T., Aberdeen  
Magauran, Andrew F., Glasgow

Moore, Joseph R., Northwich  
Morton, Irene M., Stockport  
Noden, Geoffrey, Warrington  
Patel, Jashbhai, J., W. Norwood  
Pilkington, John, Blackpool  
Reid, Alastair K., Glasgow  
Rowe, Maurice W., Plymouth  
Russell, Thomas, Glasgow  
Smith, Catherine, Kirkcaldy  
Sykes, Vernon C., Millbank  
Thornton, Jeffrey, Halifax  
Trenbath, Sheila R., Harrogate  
Webster, Dorothy, Bingley  
Whelan, John S., Harchills

## LOCAL NEWS

### Chemists' Hours in Liverpool

THE Liverpool Corporation Housing Committee has granted permission to the lessees of chemists' shops in Dovecot Place and Scargreen Avenue, Liverpool, to open on Sundays for dispensing. Similar concession are being granted, on application, to all other chemists' shops on the city's estates.

### Heavy Penalty on a Chemist

A DEDUCTION of £26 5s. from the remuneration due to a local contractor was decided upon recently by the Leicestershire and Rutland Executive Council. The analysis of a gargle made up by the chemist on a test prescription had shown that he had, in error, dispensed a gargle made up from a somewhat similar prescription. It was reported that the chemist had misread the prescription and had inadvertently dispensed a mixture more commonly prescribed by doctors.

### Long-service Presentations

SEVEN long-service employees of the Ruabon factory of Monsanto Chemicals, Ltd., recently received retirement presentations from Dr. W. H. Garrett (a director of the company). They were Messrs. J. Price (fifty years' service), W. Hughes (forty-five years); J. Harrison (thirty-seven years), T. H. Davies (thirty-six years), J. Edwards (thirty-six years), C. Jones (thirty-five years) and L. Powell (twenty-seven years).

## NEWS IN BRIEF

**Explosion in Pharmacy.**—Part of the pharmacy of Mr. H. Hornbrook, M.P.S., Devonshire Road, Birkenhead, was seriously damaged recently by a gas explosion believed to have been caused electrically.

**First-aid Film for Schools.**—"Help!", a first-aid "youth" film promoted by T. J. Smith & Nephew, Ltd., Hull, was given the first of a number of showings to schools in Hull and district recently.

**Management Accountancy Fellowship.**—A fellowship in management accountancy has been established by the Institute of Cost and Works Accountants, 63 Portland Place, London, W.1.

**Confectionery Raw Materials.**—The Ministry of Food announces a re-allocation of sugar, glucose, oils and fats to the confectionery industry from January 25. The period on which new allocations will be based is January 28 to December 29, 1951. Only 25 per cent. of the allocation will be revised

the remainder being allocated as at present.

**Pharmacology Prize.**—The council of Sheffield University recently accepted an offer by Boots, Ltd., Nottingham, to provide an annual prize of £10 (the "Boots Drummond memorial prize") to be awarded to promising students in pharmacology.

**Permission for Factory Process.**—Glaxo Laboratories, Ltd., were given permission at the Dean of Guild Court, Montrose, recently, to make alterations to a hangar at their factory in Cobden Street to enable a liver-extraction process to be carried out.

**Halifax Annual Dance.**—The Halifax Branch of the Pharmaceutical Society held its annual dance on January 1. The evening included a whist drive and prizes were presented by Mrs. Binns, wife of the president (Mr. C. Binns).

**Antibiotics for China.**—The central council of the Socialist Medical Association at a meeting in London recently, passed a resolution calling on the Government to permit the unrestricted sale of antibiotics to the Government of China.

**Deaths, July - September 1952.**—Figures issued recently by the Registrar-General show that in England and Wales in the quarter ended September 30, 1952, there were 98,666 deaths registered (8.9 per thousand of population)—the lowest rate ever recorded. There were 3,865 deaths of infants under one year of age.

**Investigation into Fog Deaths.**—The Ministry of Health is collecting information from all available sources on the deaths that occurred in the fog in London December 5-9, 1952 (*C. & D.*, 1952, II.861, and January 3, p. 13). It is to include results of a study of lung chemistry in certain fatal cases, and the further chemical study of fog and smoke.



**PHARMACIST AS PRODUCER:** A Christmas show "Mischief in Manchester," broadcast in North Regional Children's Hour recently, was produced by Mr. R. Norman (senior pharmacist, Booth Hall Hospital, Manchester). Illustration shows Mr. Jack Evans (baritone) with the Booth Hall chorus.



**Staff Parties.** — The staff of Bayer Products, Ltd., London, held a Christmas dinner and party in London recently. The attendance included the administrative staff from Africa House, London, the production staff from the factory at West Molesey, Surrey, and the company's medical representatives who were in London for a conference.—Approximately 180 members of the executive and senior staff of Parke, Davis & Co., Ltd., were entertained at an informal party in the company's canteen at Hounslow on January 1. The general manager (Mr. L. O. Smith) received the guests and during the evening presented the home sales manager (Mr. G. E. Mann, M.P.S.) with an inscribed gold watch to mark the completion of twenty-five years' service with the company. The party ended with dancing to a six-piece band, led by a member of the company's printing department.

**Pharmacies on Birmingham Estates.** —Appreciation of the co-operation given by Birmingham City Council in providing for chemists' shops on municipal housing estates was expressed at a recent meeting of the Birmingham Executive Council. Moving the report of the Benefits Committee, Mr. E. Haynes said that members of a delegation had been agreeably surprised by the plans put forward by the city architect and had been promised that consideration would be given to a plan for accommodation for chemists over the shops so that an emergency service could be provided. (See *C. & D.*, January 3, p. 2).

**"R.S.A. Journal" Centenary.** — An address on the centenary of the "Journal of the Royal Society of Arts," printed in the issue of November 28, 1952, contains a reference to early advertisers including Price's Patent Candle Co., Ltd., one of whose advertisements is quoted:—"Price's Patent Candles have recently been compelled to proceed in Chancery against two London shopkeepers, whom they had detected in habitually selling the candles of other manufacturers as those of the Company and their attention has been called by respectable dealers as well as by customers to the supposed commission of similar frauds in many other instances."

**Chemical Industry's Difficulties.** — In the current issue of the journal of the Chemical Workers' Union, Mr. R. Edwards (general secretary of the Union) said that the chemical industry faced in 1953 its most difficult period in fifty years' expansion. During 1952, he said, 13.4 per cent. of the industrial labour force had been discharged as redundant. Expensive equipment was lying idle because of a serious recession in trade. Sulphuric acid production had dropped by over 50 per cent. during 1952 because of decreased demand. The most certain way of maintaining peace was to free trade and establish trade organisations which would bring the peoples of the world into close contact for economic purposes. The Union was working out a plan to enable the industry to fight the danger of slump. Outlets for Britain's surplus chemicals had to be found.

## TOPICAL REFLECTIONS

By Xrayser

### *Small Business Handicapped*

A letter from the National Union of Manufacturers to the Chancellor of the Exchequer (p. 26) points out a serious defect in our national economy. Death duties form the subject-matter of the warning. On the day that the *C. & D.* containing this news arrived I read another statement of similar purport, issued to the Press over the signature of the president of the English National Council of Development Committees. This statement presented the case for making capital more easily available for owners of small factories, and for substituting a national plan of development for the present development-area policy. It was pointed out that more than 75 per cent. of factory workers in this country are in businesses employing from ten to 100 people. Most of the premises, it was stated, are "completely out of date," a remark applied to buildings and plant alike. Such small firms "had no capital with which to rebuild or to remechanise." The details of the author's suggestions for a remedy are not the concern of this paragraph; but the accuracy of his diagnosis can be substantiated. Many retailers could draw up a complaint on parallel lines. Have British Governments ever realised the importance of small businesses?

### *Cost of N.H.S.*

From Scotland and Northern Ireland come reminders of the concern among responsible people about the increased cost of the National Health Service (pp. 26, 34). No one disputes, I suppose, the comment of the Medical Officer of Health for Glasgow that "the cost of the health services in the country is a heavy burden on the community." What panel contractors ask is that they shall not be called upon to bear more than their fair share of that burden. A real grievance of suppliers in Northern Ireland is that lists of prescribed appliances are not revised there simultaneously with corresponding lists in England. The readiness of Northern Ireland pharmacists to co-operate in every reasonable plan for economising is well shown by the Local Pharmaceutical Committee's agreement in principle on an arrangement about urgent prescriptions. "Give and take" is an excellent principle in daily life; but if all "give" and no "take" is imposed on any class or group, the result is certain to be oppressive. It seems difficult to understand why the lists in question cannot be amended without the present delay. Surely conditions in Ulster cannot be so greatly different from those in Great Britain.

### *Early Pharmaceutical Patents*

The centenary exhibition at the Patent Office in London (p. 34) calls attention to the enterprise of patentees in past generations. Several patented preparations of medicaments have been described in *THE CHEMIST AND DRUGGIST* and in Alpe's "Handy Book of Medicine Stamp Duty." The long list is headed by Nehemiah Grew's patent of the year 1698 for "the Salt of the Purging Waters" (Epsom salts). Grew was a physician, as was Timothy Byfield, who followed in 1711 with a specification for "Sal Oleosum Volatile." As was pointed out in one of the *C. & D.* articles on this class of medicines, some eighteenth-century patentees—for example, John Hooper of Reading—managed to get their applications accepted without disclosing much information about ingredients and processes. Others gave a fairly full account of how they proceeded. The method of making John Juniper's Essence of Peppermint (which, by the way, contained "extract of common mint") was so clearly described in his specification that any experienced chemist could make an approximation to it. In a few cases such medicines and the successors of the original makers are still with us, though the patents have expired. Other "remedies" were destined to short lives, either from inherent weakness or from the pressure of competition. One weakness was the exaggerated claims made by sanguine makers. Not only physicians but also intelligent laymen became sceptical when wading through the names of a multiplicity of ailments alleged to be curable by the same preparation.



## LEGAL REPORT

**Posed as Pharmacist.** — A twenty-nine-year-old Leeds male nurse was sent to prison for eighteen months at Sunderland quarter sessions on January 12 on convictions for fraud. He was alleged to have obtained a post as a pharmacist and dispensed medicine and drugs for a day at Newcastle General Hospital, and further to have successfully posed as a doctor, a member of the Pharmaceutical Society, and a British Railways medical attendant. The man, George Harold Spencer, Tong Road, Leeds, appeared on remand and pleaded guilty on three charges of defrauding officers of the National Assistance Board at Leeds and Durham and a third charge of attempted fraud at Sunderland. He asked for nine similar cases to be taken into consideration. The total amount of assistance he had obtained under false names in the various towns was said by the prosecution to amount to approximately £30.

## NEW COMPANIES

P.C.—Private Companies; R.O.—Registered Office

**CATHRAY PRODUCTS, LTD.** (P.C.).—Capital £100. To carry on the business of chemists, etc. Jean Herbert and Claire Moore, 128 Albany Street, London, N.W.1, subscribers. Alexandra R. Simmons and Catherine D. Davies, directors.

**COLINTON PHARMACY, LTD.** (P.C.).—Registered in Edinburgh. Capital £2,000. To carry on the business of chemists, druggists, opticians, etc. Robert A. Milne and (Mrs.) P. S. Milne, directors. R.O.: 20 High Street, Peebles.

**MINING & CHEMICAL PRODUCTS, LTD.** (P.C.).—Registered in Dublin. Capital £100. To acquire any mines and quarrying rights in any part of the world etc. Thomas C. Dwane, and Christopher Carroll, subscribers. First directors are not named.

**HALLEWELL (CHEMISTS), LTD.** (P.C.).—Capital £5,000. To acquire the business of a chemist carried on by Ethel M. Hallowell, M.P.S. Ethel M. Hallowell and Reginald S. Hallowell, directors. R.O.: 457 Brook Lane, Kings Heath, Birmingham.

**NULITE CHEMICALS, LTD.** (P.C.).—Capital £500. To acquire the business of hairdressers' and chemists' sundriesmen carried on as Nulite Chemicals. Charles H. Fabes and Elizabeth W. Fabes, directors. R.O.: 98 Dominion Road, Worthing, Sussex.

**TONICITY CO., LTD.** (P.C.). — Capital £100. To carry on the business of manufacturers, buyers and sellers of all kinds of medicines, drugs, etc. L. W. Holmes and M. E. Bugden, subscribers. First directors are not named. Solicitors: Billingham, Wood & Pope, 7 Bucklersbury, London, E.C.4.

**A. G. LAIDLAW, LTD.** (P.C.). — Registered in Edinburgh. Capital £10,000. To carry on the business of retail, wholesale and manufacturing chemists, etc. J. T. Douglas, Andrew G. Laidlaw, M.P.S. (Mrs.) A. I. Noble and Walter B. G. Laidlaw, directors. R.O.: 36 High Street, Perth.

## Company News

**PAINES & BYRNE, LTD.**—Mr. N. H. Martin (general manager of the company) has been appointed to the board.

**A. MILLAR & CO., LTD.** (cordial manufacturers, Dublin). — Profit for year ended October 31, 1952, after all charges was £17,343. A dividend of 10 per cent. on ordinary shares plus 4 per cent. bonus (less tax) has been recommended.

**MILTON ANTISEPTIC, LTD.**—Ordinary dividend is raised by 2½ per cent. to 15 per cent. for year ended September 30, 1952. Group profit, before tax, was £77,870 (against £58,763). After tax, profit was £21,126 (£23,383).

**BRAND & CO., LTD.** — Trading profit and sundry income for year ended September 30, 1952, was £247,447 (against £178,080 in the previous year). Profit, subject to taxation of £146,000 (£68,000) was £210,441 (£147,141).

**SPA BRUSHES, LTD.** — Trading profit for year ended August 31, 1952, was £51,051 (against £66,612). Balance, after directors' emoluments and depreciation, was £38,099 (£53,051) subject to tax of £23,843 (£32,250). Dividend for year, 15 per cent. (17½ per cent. in the previous year).

**HARRY GREEN, LTD.** — The directors are to recommend that no dividend be paid for the year ended May 31, 1952 (the last distribution was 30 per cent., less tax, for 1948-49). Net trading loss was £2,311, plus directors' emoluments, £4,050 and other charges, making a total debit of £14,578 (against a profit of £10,503 in the previous year). The chairman's statement, it is indicated, will show that the loss has been made good in the first six months of the current trading year.

## BUSINESS CHANGES

**MR. WALTER C. D. BAIN, M.P.S.**, has transferred his pharmacy at 12 St. Clement Street, Aberdeen, to 140 King Street.

**THE BRITISH STANDARDS INSTITUTION** has acquired premises at 2 Park Street, Mayfair, into which it will move at the end of the summer.

**THE COUNTY CHEMICAL CO., LTD.**, Chemico Works, Shirley, Birmingham, have appointed Mr. Reginald G. Sheldrake their general sales manager.

**INDUSTRIAL SOAPS, LTD.**, City Soap Works, Green Bank, London, E.1, have introduced a new general supplies department. There has also been some revision of sales territories.

**JOHN DALE, LTD.**, New Southgate, London, N.11, have taken over the sales agency for the Packaging Monitor machine manufactured by Isotope Developments, Ltd., 120 Moorgate, London, E.C.2.

## Appointments

**UNICHEM, LTD.**, 3 Broadwater Road, London, S.W.17, have appointed Mr. R. Gordon Diss, M.P.S., their representative in North London and the Midland counties.

## MARRIAGE

**MOULTON—CHARLTON.** — At St. John's Church, Crewe, on December 26, 1952, Peter R. Moulton, B.A., Willaston, Nantwich, Ches., to Barbara Elizabeth Charlton, M.P.S., Silvermere, Wistaston, Crewe, Ches.

## DEATHS

**BEATH.** — On December 22, 1952, Mr. John Beath, M.P.S., Main Street, Thornton, Fife, aged eighty.

**BELL.**—On December 26, 1952, Mr. George Andrew Bell, Ph.C., 6 Willow Road (Garden Flat), Hampstead, London, N.W.3, aged sixty-seven.

**CUNNINGHAM.**—Suddenly at his home, 38 Witch Road, Kilmarnock, on January 10, Mr. William John Cunningham, M.P.S.

**DODGE.**—At Mount Vernon Hospital, Northwood, Middlesex, on January 4, Mr. John Perrin Dodge, M.P.S. Son of the late Mr. E. Dodge, M.P.S., 31 High Street, Lowestoft, Mr. J. P. Dodge was educated at Bungay (Suffolk) Grammar School, and qualified as a pharmacist in 1934, after study in London. For some time afterwards he worked for his father and for the past five years he had managed a branch of E. Moss, Ltd., at 3 Station Approach, South Ruislip, Middlesex. Mr. Dodge served in the Royal Air Force during the 1939-45 war, and is survived by his widow.

**DODGSON.** — On December 28, 1952, Mr. William Vondy Dodgson, M.P.S., 6 Halsbury Road, Liverpool, 6. Mr. Dodgson qualified in 1921.

**HAWKINS.**—In Leeds, recently, Mr. William Arthur Hawkins (managing director of W. A. Hawkins & Sons, Ltd., 3 Burley Street, and 73 Town Street, Armley, Leeds).

**JENKIN.**—On December 27, 1952, Mr. James Jenkin, M.P.S., 352 High Road, Wood Green, London, N.22, aged eighty-six.

**JOHN.** — At the Pharmacy, Crym-much, Pembrokeshire, on January 5, Mrs. Gwladys Winifred John (wife of Mr. W. D. John, M.P.S., J.P.).

**KING.**—On December 23, 1952, Mr. Trevor Stanley King, M.P.S., 31 The Broadway, Northbourne, Bournemouth. Mr. King qualified in 1920.

**MACEACHRAN.** — At Heathville, Campbeltown, Argylls, on January 4, Mr. Archibald Maceachran, M.P.S. Mr. Maceachran qualified in 1901 and was in business at 4 Kirk Street, Campbeltown.

**RAYNER.**—At 62 New Dover Road, Canterbury, the home of her only child, recently, Mrs. Ida Anne Rayner (wife of Mr. Archibald W. Rayner who until his retirement was in business at New Market, Beccles, for about forty years).

## LOCAL OFFICERS

### Pharmaceutical Society

**Chesterfield Branch.**—Chairman, Mr. C. E. V. Hancock; Treasurer, Mr. H. E. Keetley; Secretary, Mr. A. Livesley, 35 Market Place, Chesterfield.

### National Pharmaceutical Union

**Chesterfield Branch.**—President, Mr. A. Livesley; Secretary, Mr. R. E. Wardell, 209 Chatsworth Road, Chesterfield.

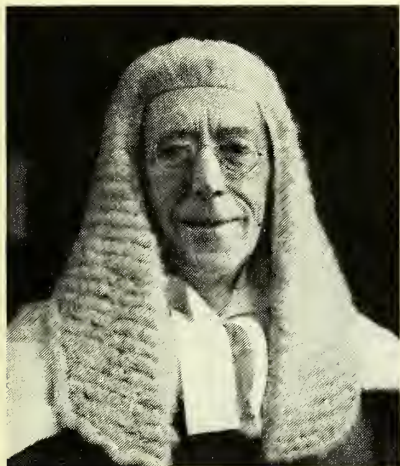


# A PHARMACIST ON THE HIGH COURT BENCH

Appointment of Mr. Hildreth Glyn-Jones, M.P.S., Q.C.

APPOINTED a judge of the High Court on January 8, Mr. Hildreth Glyn-Jones, M.P.S., Q.C., is the first pharmacist to hold such a post.

Inheriting the brilliant gifts and capacity for work of his father, the late Sir William Glyn-Jones, M.P.S., J.P., Hildreth Glyn-Jones was intended by Sir William eventually to take over the organisational duties of the founder of the Proprietary Articles Trade Association and pioneer worker



in price maintenance. He qualified both as a pharmacist and a barrister, studying for the two professions simultaneously but after qualifying let it be seen, to his father's dismay, that he had other plans. Nevertheless Sir William lived to acknowledge that his son chose the right course.

He was born in one of three rooms above his father's chemist shop at East India Dock Road, Poplar, London, E.14, in 1896, the year in which the P.A.T.A. was formed. Shortly afterwards he did his infant best to wreck the organisation by dragging with him into his bath many of the first enrolment forms.

## Schooldays and Apprenticeship

When he was a small boy the family removed to Aveley, Essex, where, aged five or six, he attended the village school. In 1901 the family moved again, settling in the North London suburb of Palmers Green. He attended the City of London School until he was seventeen, and then began to follow his father's footsteps, embarking on an apprenticeship in pharmacy with Mr. Frank Goldby, Enfield, Middlesex, an examiner of the Pharmaceutical Society and a pharmacist of the old school whose zest for pharmaceutical work was such that he would take his apprentice to the pavement in front of the shop and call on him to admire a sample of recently-made syr. glycerophos. co. against the sky as if it were vintage port.

He attended evening classes at King's College, London, to study for a degree, and his father intended that he

should try for the Jacob Bell scholarship of the Pharmaceutical Society. Both plans were disrupted by the outbreak of war, for in 1914 he joined the Inns of Court Officers Training Corps. He was commissioned 2nd lieutenant in the 10th battalion the Middlesex Regiment in 1915, and the same year, while on service at Gallipoli, he contracted amebic dysentery. While unfit for active service he worked as an analyst with the Ministry of Munitions. Returning to combatant duties he was transferred to the Machine Gun Corps and served in France from September 1918 to the end of the war. Demobilised in 1919, he joined the staff of the Plough Court pharmacy of Allen & Hanburys, Ltd., to complete his apprenticeship, and attended the College of the Pharmaceutical Society, combining with his pharmaceutical work study for the Bar at Middle Temple. He qualified as a pharmacist in 1920 and was called to the Bar in 1921, the year of his marriage. While still studying he worked part-time in his father's organisations, and had the good fortune to come under the influence of that indefatigable worker the late Mr. William Johnston (assistant secretary and later secretary of the P.A.T.A.).

## Legal Career

Soon the young Glyn-Jones decided to make the Bar his profession. He got together a small practice at the Common Law Bar in London, and in the Welsh Circuit, augmenting his early income by journalism and lectures in law at London County Council evening institutes. Progressively he built up a heavy general practice as a junior. When the war clouds gathered again he joined, in April 1939, his old regiment. He was given the rank of captain and the command of a company of 2/7 Battalion. After serving as quartering commander for London district during the early air raids, he was posted to the Judge Advocates' department of the Army in 1941 and served as Deputy Judge Advocate for the Southern Command until 1944. He took silk in 1943 while still serving in the Army. In February 1944 he was released from military service on the recommendation of the Lord Chancellor because there were insufficient leading counsel in the Welsh Circuit to enable all of the work to be done. In 1944 he was appointed Recorder of Merthyr Tydfil, Glam (the town where his father received his early education) and in August 1945 Recorder of Cardiff, a post he retained until his recent appointment.

Since the war he has practised in London and on the Welsh Circuit. He has served as Commissioner of Assize. While his cases have been of general common law his pharmaceutical experience has been of use to him in cases involving Food and Drugs legislation. At various times he has been briefed for and against the Pharmaceutical Society. Recent briefings in

cases of pharmaceutical interest include the defence of Potter & Clarke, Ltd., against the Pharmaceutical Society in a test case in 1947; the defence in 1948 in a case brought by Woolwich borough council and turning on the meaning of "syrup of figs," and in 1952 in a case brought by the Pharmaceutical Society against Boots, Ltd., concerning self-service under the Pharmacy Acts. Mr. Justice Glyn-Jones has three daughters, all of whom have taken a second at Oxford or Cambridge. He is a justice of the peace for Berkshire, deputy chairman of Berkshire Quarter Sessions, chairman of Aldermaston, Berks, parish council, and a sidesman at Aldermaston church. He received the T.D. in 1950.

## PERSONALITIES

DR. GEORGE F. ABERCROMBIE has been elected chairman of a College of General Practitioners which was recently formed as an unincorporated association at 14 Black Friars Lane, London, E.C.4.

MR. F. S. C. ANDREWS, M.P.S., King Street, Great Yarmouth, a member of the local town council, was among those attending a course at Cambridge Civil Defence for technical officers, Eastern Region, recently.

MR. NONDAS GAVERAS, P.O. Box 264, Athens, Greece, is visiting London in late January or early February, and would like to meet manufacturers of pharmaceutical products not yet represented in Greece. His address during his stay will be Imperial Hotel, London, W.C.1.

DR. W. J. WORBOYS has been appointed chairman of the Council of Industrial Design from February 1. Dr. Worboys is a director of Imperial Chemical Industries, Ltd., and vice-chairman of the Council of the Association of British Chemical Manufacturers. He was born in Australia and attended Oxford University—where he gained his degree of doctor of philosophy—as a Rhodes scholar. He has been a member of the council since its inception in 1947.

MR. ROBERT GORDON DYAS, who was recently elected president of the Proprietary Articles Trade Association for 1953 (see p. 54) has represented his company (John Grossmith & Son, Ltd., manufacturing perfumers, London) on the council of the Association since 1940, when he succeeded the late Mr. A. Ridout. Mr. Dyas was elected a member of the executive committee in 1944, and has held office as a vice-president and as chairman of the manufacturers' section for the past three years. He was elected treasurer of the Association in 1950, and during his presidency is to continue in that office. He is a great-nephew of John Grossmith (son of the founder of the business). In addition to his work for the P.A.T.A., Mr. Dyas was chairman of the Council of the Toilet Preparations Federation during 1952.



# PROPRIETARY ARTICLES TRADE ASSOCIATION

THE council of the Proprietary Articles Trade Association held its quarterly meeting on January 8, the president (Mr. J. E. Goodall) in the chair.

A resolution moved by the president expressed appreciation of the services rendered to the Association by the late Mr. William Johnston, a founder member of the P.A.T.A., and its assistant secretary for the first twenty-five years. THE PRESIDENT welcomed the newly elected member (Mr. J. C. Bloomfield), wishing him a fruitful term of office.

The council decided to accept the invitation extended by the Monopolies Commission to submit factual information and views at the inquiry that has been announced (see *C. & D.*, 1952, II, 874). A subcommittee was appointed to prepare and present the Association's case.

The council received the executive committee's report on representations made by memorandum and deputation to the Purchase Tax Valuation Committee (see *C. & D.*, 1952, II, 136). On behalf of the P.A.T.A. it had been pointed out to the committee that, from the time purchase tax had been introduced, it had been the policy of the Association to do its utmost to ensure that the tax assessment on an individual article included in the P.A.T.A. list was uniform, so as to make practicable the quotation in that list of a fixed tax-inclusive retail price. By agreement with the Commissioners in 1940, an arrangement of that kind had been adopted, and it was embodied in the statement in the P.A.T.A. list that for taxable articles in the list the "wholesale value" is the "per dozen" price (the standard wholesale price) less in some instances any cash or settlement discount (not "quantity" discount) available to all retail buyers.

## A System that Worked

The Association's views on the "wholesale value" question were submitted at the time, when it was emphasised that if it were left to the discretion of the individual manufacturers and wholesalers to levy the tax on varying wholesale values the position, from the point of view of the purchasing public and of the retail trader, was likely to be anomalous and confusing, in that a customer purchasing an article from a trader who obtained his supplies from a wholesaler in small quantities would pay one rate of tax, and a different and lower rate on a subsequent occasion if he bought the same article from another retailer who, because of the large scale of his buying, obtained the extra discounts. The views then expressed were still held by the Association. The present arrangement, which had been accepted by the Commissioners, had worked smoothly and satisfactorily, and the Committee were requested to recommend its continuance. The Council approved the action taken.

On behalf of the manufacturers' section. MR. H. G. MIDDLETON proposed that Mr. R. G. Dyas should be elected *President* for the year. The

motion, seconded by MR. REES, and supported by MR. F. J. SMITH, was carried unanimously and with acclamation.

MR. DYAS thanked the council for the honour conferred upon him. He then moved from the chair that the thanks of the council should be accorded to the retiring president (Mr. J. E. Goodall) for his services during the year. Mr. Goodall thanked the president, and added his personal thanks to the secretary and the staff for their help.

The following officers were also elected: *Vice-presidents*, Messrs. Norman Dewey (manufacturers), H. G. T. Read (wholesale), D. A. Rees (retail). *Treasurer*, Mr. E. G. Dyas. *Executive committee*, Messrs. E. H. Lambert, H. G.

Middleton, G. H. Roberts, J. E. Walmesley (manufacturers); A. Chapman, N. E. Forster, L. D. Smith, S. Watson (wholesalers); C. H. Foster, H. G. Moss, J. F. Watts, F. G. Wells (retailers), with (*ex-officio*) the president, the immediate past-president, the vice-presidents and the chairman of the P.A.T.A. Trust Co., Ltd. (Mr. F. J. Smith).

During the previous quarter the Association's investigation department had been mainly concerned with certain price-cutters in the metropolitan area. Important sources of supply to these traders had been traced. During the period 454 calls and 470 purchases had been made by the investigators of the Association.

## INQUESTS

**Child Takes Digitalis Pills.**—A verdict of accidental death was recorded at an inquest at Omagh, co. Tyrone, Northern Ireland, recently on a child aged twenty-one months who died after taking thirty-eight digitalis pills.

**Open Verdict on Pharmacist.**—At an inquest at Rhyl on December 22, 1952, on Mr. Gomer Myllon James, chemist, Rhyl, an open verdict was returned in accordance with medical evidence that he died as a result of strychnine poisoning.

**Thiosemicarbazone Causes Death.**—At an inquest in Middlesex recently a verdict of death from misadventure was given on a woman who had died from anaemia following the administration of thiosemicarbazone. A doctor in evidence said that there had previously been a similar case.

**Drug Given to Wrong Patient.**—A verdict of death by misadventure was returned at a Leicester inquest recently on a forty-seven-year-old man who died after a student nurse had given him by injection half a grain of morphine intended for another patient.

**Child's Access to Aspirin.**—A verdict of death due to misadventure was returned at Rhyl recently at an inquest on a three-year-old boy whose death had resulted from taking aspirin tablets to which he had gained access. A pathologist said that the child had taken between six and eight tablets; a fatal dose for a child of that age. Small children were sensitive to aspirin.

**Leakage on to Electric Blanket.**—The danger of having both a hot-water bottle and an electric blanket in bed was emphasised by the Hull city coroner at a recent inquest on a seventy-five-year-old man whose hot-water bottle had leaked and caused the blanket to become overheated resulting in burns from which the man died. A verdict of death by misadventure was recorded.

**First Death Ascribed to Butazolidin.**—A death following the use of Butazolidin for the treatment of rheumatoid arthritis, the first to be recorded, was the subject of an inquest at Cardiff recently. A pathologist said that death was due to broncho-pneumonia caused

by the drug. Patients were warned about upset in the stomach, rash, and swelling, but in the light of the Cardiff case the warning should be extended to sore throat. A verdict of death by misadventure was returned.

**Infected Plasma.**—At an inquest at Braintree, Essex, on December 12, a verdict of accidental death caused by the transfusion of infected plasma after accidental burns was returned on a man who had died at Black Notley, Essex, hospital. A doctor said that tests showed that the plasma used in the transfusion had come from a person infected with a jaundice virus. The Essex county pathologist said that the man would almost certainly have recovered if the plasma had not been infected.

## NEW BRITISH STANDARDS

THE following four British Standards recently issued deal with rubber products for hospital use and have been prepared in collaboration with professional and industrial interests concerned. In each standard methods of manufacture are specified together with dimensions, weights and the physical properties of the materials used both before and after sterilisation.

**SURGICAL RUBBER GLOVES (B.S. 1803, 1952, price 1s. 6d.):** For gloves made by dipping in rubber solution (both cold and hot vulcanised), or by dipping in latex. Methods of sterilisation are given.

**RUBBER WARD-DRESSING GLOVES AND PORTERS' GLOVES (B.S. 1883, 1952, price 2s.):** For gloves rubber solution-dipped, latex-dipped, and built up from sheet rubber. Methods of marking so that purchasers may ascertain date of manufacture are given.

**RUBBER POST-MORTEM GLOVES (B.S. 1884, 1952, price 2s.):** Similar in scope to B.S. 1883.

**RUBBER TUBING FOR HOSPITAL USE (B.S. 1882, 1952, price 2s.):** Specifications are included for pressure, drainage, stethoscope and Paul's tubing. Transfusion tubing will be dealt with later by an amendment slip.

Copies of the above standards at the prices quoted may be obtained from the British Standards Institution, 24 Victoria Street, London, S.W.1.



## TRADE NOTES

**Deliveries Warning.**—A warning that slight delay in deliveries of Alka-Seltzer may result from an unprecedented rush of orders is given by the makers, Don S. Momand, Ltd., 58 Albany Street, London, N.W.1.

**Display Without Handling.**—Using showcases like the one illustrated on another page by Waterhouse, Bull Bridge, Accrington, Lancs, chemists can ensure that displayed goods are seen but not handled by customers.

**Polythene Feeders.**—The Skylon polythene dual-purpose feeder illustrated is designed both for use as a feeding-bottle and as a measure for preparing the feed. Besides being hygienic, unbreakable, odourless, tasteless, and readily sterilised in boiling water or chemically, the Skylon keeps contents warm longer than a glass bottle. Marking is in fl. oz. and c.c. The 8-oz. Skylon feeding-bottle is designed to use any standard size teat.



The dual-purpose feeder is supplied complete with Skylon brand teat and has a wide neck for easy cleaning. Each is individually packed in transparent tissue with an instruction leaflet and then in carton of six. For export there is a special carton containing seventy-two and weighing only 11 lb. (can be sent by post). With orders of twenty-four or more a counter showcard is provided.

**Sole Agent in Ireland.**—Colloidal Chemists, Ltd., 35A Bessborough Place, London, S.W.1, have appointed Mr. James Maguire, 87 Grafton Street, Dublin, their sole agent in Ireland for Heluan cream.

**Anæsthetics for Everest.**—Duncan, Flockhart & Co., Ltd., 104 Holyrood Road, Edinburgh, 8, are supplying Xylocaine solution and ointment and chloroform pure, Duncan, to the British Mount Everest Expedition, 1953.

**Improved Packing.**—Optabs eye-lotion tablets are now available in a new packing in which they are claimed to keep perfectly. The makers are British Chemotheutic Products, Ltd., Kemtheutic House, P.O. Box 242, Bradford, Yorkshire.

**Lectures on Dry Rot.**—A new series of lectures on woodworm and dry-rot is being given by Dr. N. E. Hickin, F.R.E.S., at the Rentokil woodworm and dry-rot centre, 23 Bedford Square, London, W.C.1, at 6 p.m. on Monday evenings from January 29 to March 30. Admittance is free by ticket.

**Horticultural Poisons Chart.**—A chart relating to sales of insecticides, fungicides, weedkillers and rodenticides, etc., published by the Association of British Insecticide Manufacturers, 166 Piccadilly, London, W.1.

## NEW PRODUCTS AND PACKS

**A Mild Analgesic.**—Tercin, which has been introduced by The British Drug Houses, Ltd., London, N.1, combines aspirin and phenacetin with a barbiturate. It is intended for the relief of mild forms of pain for which tablets of aspirin, phenacetin and codeine have hitherto been prescribed. Tercin is available for dispensing only, in bottles of 200 and 1000.

**Antibacterial Solution for the Ear.**—Menley & James, Ltd., Coldharbour Lane, London, S.E.5, announce a new presentation of Furacin. Furacin ear solution, for the treatment of bacterial infections of the middle and outer ear. Furacin ear solution is active against all the bacteria commonly found in acute and chronic otitis media or externa; it is hygroscopic and anhydrous. The solution is issued in 1 fl. oz. bottle with dropper.

**Chlorophyll Solid Dentifrice.**—A new variant of Gibbs dentifrice, Gibbs chlorophyll dentifrice, is being launched by D. & W. Gibbs, Ltd., 7 Bridewell Place, London, E.C.4, in "gleaming white" tins illustrated on another page. A launching bonus of fourteen for the price of twelve (double the normal) is offered to dealers. Display outers are available and a "dispenser" showpiece enables the new product to be shown alongside tins of the plain dentifrice.

**Vaccine from New Medium.**—Burrroughs Wellcome & Co., 183 Euston Road, London, N.W.1, announce the introduction on January 19 of Wellcome brand whooping-cough vaccine cultured on a liquid medium. The vaccine is prepared from selected freeze-

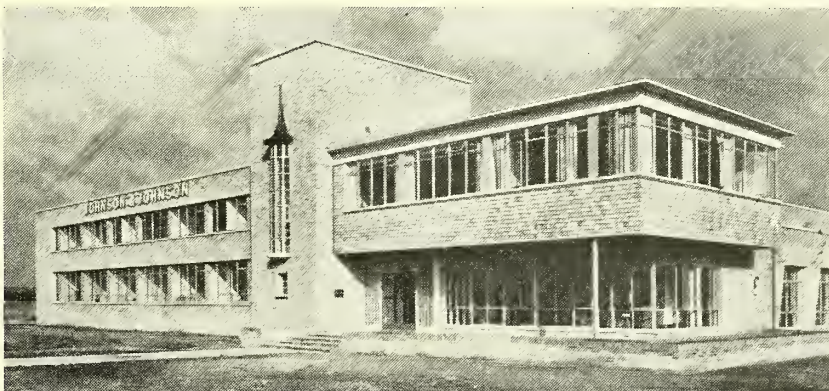
has been brought up to date. The revised booklet includes the revised provisions relating to organo-phosphorous and di-nitro compounds which are First Schedule (P. II) poisons when sold for use in agriculture and horticulture. Copies of the chart (price sixpence each) may be obtained from the offices of the Association.

**Combined Chilblain Treatment.**—Amisyn tablets, combining acetomenaphthone and nicotinamide, are issued by the Armour Laboratories (Armour & Co., Ltd.), Lindsey Street, London, E.C.1, for the treatment of chilblains. The tablets are tax-free.

dried strains of *Haemophilus pertussis* isolated by the cough plate method in the smooth virulent stage and contains 20,000 million organisms in each c.c. It replaces the existing Wellcome brand whooping-cough vaccines grown on sheep-blood medium, and is available in two packings.

**Analgesic Lozenge.**—William R. Warner & Co., Ltd., Power Road, London, W.4, announce the introduction of Tyrosolven, a new antibiotic-analgesic throat lozenge for the treatment of mouth and throat infections. Tyrosolven lozenges combine the antibiotic tyrothricin and a local anæsthetic, benzocaine, with a tyrothricin solvent in a pleasantly flavoured lozenge base. Tyrothricin, in Tyrosolven lozenges, is stated to act only in the mouth and throat and not to be absorbed from the gut into the system. The packs are a tube of twenty and dispensing pack of 250.

**New Medical Specialities.**—The Anglo-French Drug Co., Ltd., 11 Guilford Street, London, W.C.1, announce the introduction to the medical profession of Encynex, a new compound of para-aminobenzoic acid and sodium salicylate with suitable adjuncts for the symptomatic treatment of rheumatic disease by means of high-plasma salicylate levels. The product is supplied in bottles of fifty tablets. The company are also bringing to the notice of hospitals and nursing homes a new multivitamin capsule Maxamin containing vitamins A, B complex, C, D, and natural mixed tocopherols. Maxamin is available in bottle of twenty-five and hospital pack of 750 capsules.



A COMPANY'S HEADQUARTERS: New administrative offices for Johnson & Johnson (Gt. Britain), Ltd., Trading Estate, Bath Road, Slough, Bucks.



# ENGINEERING SCIENCE IN PHARMACY

## Reasons for a new Degree subject and the extent of its field

**T**HE Pharmaceutical Society's evening meeting in London on January 12 was given over to an exposition of the subject of pharmaceutical engineering science, accepted by London University since 1946 as an optional subject for an honours degree in pharmacy. The speaker was Mr. D. Trajn, M.C., B.Pharm., B.Sc., Ph.C., A.C.G.I. (lecturer in pharmaceutical engineering science, School of Pharmacy, University of London). The main points of his address are summarised below:—

### Logical Development

In 1946 the University of London instituted an honours degree in pharmacy and included in the syllabus for its final year a new subject, pharmaceutical engineering science. Under the regulations a student may choose this subject together with one other subject. The subject for final year study is a logical development of pharmaceuticals.

The first British Pharmaceutical Codex in 1907 began the process of eliminating the necessity for the pharmacist to have a very extensive technical knowledge. The doctor was encouraged to prescribe compounded preparations instead of prescribing extemporaneously as previously. Moreover, those preparations were increasingly standardised. Those set formulas, therefore, became national prescriptions and lent themselves to large-scale production with all its economic implications. The process was extended by the various formularies under the National Health schemes. Consequently the retail pharmacist today is faced with an economic situation which tempts him to buy manufactured preparations while the physician is encouraged to prescribe them.

The education of the man who has taken over the work of large-scale production of galenicals, formulated preparations, injections, tablets, etc., is not a mere transference of procedure from the dispensing counter to the manufacturing laboratories. It involves the translation of small-scale into large-scale operations and I submit that for this a different type of person is required.

The heating or cooling of a material on the large scale constitutes a problem. Consider a batch of 250 gallons and a batch of two gallons of extractive for extract of cascara. Suppose they are heated through the same temperature range in vessels of the same shape but of different size. The vessel for the large batch will have five times the diameter of that for the small batch and the surface area of the larger vessel will be twenty-five times that of the smaller. Consequently, although there is 125 times as much heat to put into the larger vessel to increase the temperature by the same amount, there is only twenty-five times the area through which this heat may be transferred. Therefore it would take five times longer to heat the larger batch. If the time has to be kept constant, means must be found to increase the method by which the heat is transferred. Whichever condition is imposed, if the material is heat-sensitive it runs a greater risk of being overheated in the large vessel.

A simple problem such as handling or transporting material can become difficult on a large scale. There is a limit to the size of container which can be used when much larger quantities are involved. In the case of mobile liquids transmission along a pipe is straightforward provided that the materials used in the construction of the pipe and equipment do not contaminate the contents. However, in the case of viscous or volatile fluids, problems may arise which can only be satisfactorily solved by a sound knowledge of the physics of fluid flow.

There are many examples of apparently simple factors which can become formidable problems on the large scale. I think it is quite clear that the person responsible

for all these large-scale processes is a different type of pharmacist from his retail colleague. The new man must be a technologist of quite high order in a very specialised field, and requiring a new type of training. To learn these things empirically, by experience, is too costly in time, money and human effort. A better result is achieved if the fundamentals can be incorporated into his pharmaceutical training.

First there are the ideas of movement of materials of which fluid flow is perhaps the most important. Fluid flow is a highly intricate subject and I will confine my comments to one or two features of the flow of simple substances such as water or oil. The impression of fluid flow left in the minds of students studying this section of physical chemistry is one of layers of fluid flowing over one another like cards in a pack or of a series of tubes sliding concentrically in a pipe. It is not always easy to produce that type of flow. Two types of flow are possible, according to the conditions of the fluid, its velocity and the surface against which it flows.

An understanding of the advantages and limitations of fluid flow is essential to the pharmacist who wants to know exactly what is happening in his equipment and plant. A proper appreciation of the effects of fluid flow is as important on the research bench as in the manufacturing plant, and teamwork results are much more fruitful if everyone is aware of the factors involved. If the student receives instruction at an early stage in his career, he will, right from the beginning, have the correct approach whenever he has fluid problems to solve.

Wherever there is fluid movement the molecules in contact with the surface will, to a greater or lesser extent, be adsorbed on to it and be virtually stationary. The adjacent molecules will have some sluggish movement. This produces a "boundary layer," and it cannot be emphasised too strongly what an important part that layer plays in pharmaceutical processing. The film impedes heating since all heat transfer must be by conduction, not by convection which is more efficient. In the process the film gets overheated itself. It will be evident that this is the region where most deterioration takes place when subjecting fluid thermolabile materials to heat. An illustration of how the boundary layer may act in an unexpected way is provided by the food industry. It has been found that micro-organisms take longer to kill in a viscous solution than in a simple aqueous medium when they are placed under identical conditions of heating. The increased time for killing has been attributed to the insulating effect of the sluggish fluid layer around the organism.

### Mixing

Another aspect of flow is mixing. On a large scale very real problems are presented whereas these often appear to be simple when small amounts are involved. Unless it is known how the relevant factors act, any improvement in the design or performance of the plant becomes a matter of trial and error which can be very costly.

To show how a fundamental approach may place an entirely different emphasis on the study of a unit operation, I want to quote as an example the operation of tableting. For many years the process has been one of technical "know how" and has had very little theory by which to explain what happens when powders or granules are compressed. Broken down into its constituent principles, the process of tableting becomes a study of

- (a) The size enlargement of powders to form granules.
- (b) The flow of granular materials through orifices.
- (c) The effect of size and shape on the free packing of granular materials.



(d) The effect of compression on the properties of granular materials.

Stated in this way the process becomes a subject which is not confined to the preparation of tablets for medicinal use. The results of these fundamental studies have wide application.

Thus, much less emphasis is placed on the details of the manufacture of individual products than has been the case in pharmaceutical education hitherto. It is only when basic principles have been firmly established that it is demonstrated how the mechanism of the operations and plant conform to them. This gives a much firmer and more useful background than would the approach where the manufacturing process is broken down into the individual operations and then an indication of the principles given. With certain reservations I would say that these two methods emphasise the difference in the training of a technologist and a technician.

## Discussion

Tributes to the lecturer were paid by MESSRS. G. E. OAKLEY, London, and C. W. PECK, London. Mr. Peck (whose comments were read, in his absence, by his son) pointed out that chemical engineers were not trained to deal with sterilisation, antibiotics, etc., so that there was need for training in pharmaceutical engineering science. MR. TRAIN said that the course had shown itself to have a wider application than originally thought possible. Perhaps pharmacists so trained might be absorbed by the food industry for there were few other chemists with a knowledge of bacteriology and vice versa. PROFESSOR H. BERRY (dean of the School of Pharmacy) said that he had for some time held the view that there was little to be said for the teaching of manufacturing on the small scale by means of "Mrs. Beeton operations." The subject should be approached fundamentally by engineers with a pharmaceutical background.

# PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

A MEETING of the Council of the Pharmaceutical Society was held in London on January 6 and 7, the president (Mr. W. J. Tristram) in the chair.

After a reference to the success of the exhibition held to celebrate the centenary of the Pharmacy Act, 1852, MR. D. W. HUDSON pointed out to the history of pharmacy committee the desirability of encouraging the collection of articles which were fast disappearing and in a few years would become worthy of a place in the Society's museum.

The curator's report recorded that Mr. Hudson had presented to the museum a number of items of pharmaceutical equipment, most of them of nineteenth century origin. Other gifts reported were a civet horn from J. Kerfoot & Co., Ltd., Vale of Bardsley; a pewter enema syringe from Mr. F. R. Maxey, Forest Gate; inhalers and other objects from Mr. K. J. McKeand (D. T. Evans, Ltd.), Margate; an apothecaries' medicine cabinet from Mr. E. Saville Peck, Cambridge; and a plaster iron and a French suppository mould from Mr. P. H. Woodnoth, London. The Council expressed its appreciation of those contributions.

The Council decided to make an annual grant of £2,000 to the School of Pharmacy, University of London, for the quinquennium 1952-57. THE REGISTRAR reported that replies to a questionnaire attached to the retention fee form for 1952 had been received from 16,593 members out of 26,000. That number was insufficient to provide a trustworthy guide to the whole membership. It was agreed to await the result of the current circularisation. A letter was reported from the secretary, General Practice Steering Committee, stating that the Committee had completed its work on the College of General Practitioners and expressing the hope that the Society would support its suggestions. It was agreed to convey the Council's good wishes for the success of the College and to suggest a discussion on how the two bodies might assist each other.

The Organisation Committee had considered Branches' requests for second speakers, and recommended that no change should be made in the basis on which Branches might obtain speakers at the expense of the Society, and that a list of scientific speakers now in preparation should be circulated to the Branches. The Council agreed.

Letters from Branches on the revised Statement on matters of professional conduct were received as follows:—

ISLE OF WIGHT.—Clause 2: The words "The public are entitled to expect" should be deleted. The second paragraph should read: "The opening and closing hours under any rota or other local arrangements which enable the general needs of the public to be adequately met outside the normal hours of business, should be observed." Clause 3 should be deleted. Clause 4 should be deleted until the Society can obtain sufficient remuneration from Ministry enabling pharmacist to live from pharmacy. Clause 10:—The words "Dispensing Chemist" should not be barred from use in advertising. Clause 11 should be amended to read: "Any announcements which may be

needed as to dispensing services available in the district should be issued through the local Branch in conjunction with Executive Council."

WOLVERHAMPTON AND DISTRICT.—The following words should be deleted: Clause 2, "It also involves willingness and ability to furnish such supplies at all reasonable times. In deciding what is reasonable, regard should be paid to the nature and urgency of the case." Clause 3, "the accommodation is sufficient in size and services and suitably allocated the stock." Clause 4, "Articles other than medicines and medical and surgical appliances and related articles should not be displayed or visibly stored in such a manner as to detract from this effect." Clause 6, substitute "must" for "should" and delete "be offered or." Clause 25, delete "or colourable imitations."

NEWCASTLE AND NORTHUMBERLAND. — "While we are not opposed to the alteration of the existing code of ethics, the revised statement on matters of professional conduct is not at all satisfactory in any aspects, and we move its rejection and invite the Council to produce a statement relating to the professional and not the business conduct of the members."

TORQUAY AND DISTRICT.—"This Branch rejects the draft revised statement on matters of professional conduct, in that it seeks to control individual activity in pharmacy in too great detail and at too great an extent. A code of ethics should be brief and should seek to control only those matters which are of moral issue. A code based on broad moral issues could be sensibly interpreted by both those who must observe it and by those who must enforce it. We would welcome a new draft on such a basis."

The Committee also received a report of the meeting between representatives of the Society and of the National Pharmaceutical Union on that subject. It was decided to hold a special meeting of the Committee on January 16 to review the comments so far received on the statement.

Further correspondence was received by the Public Services Committee from Branches on pharmaceutical assistants. Resolutions were submitted as follows:—

TEES-SIDE BRANCH. — "We deplore the suggestion that the Society should recognise that Pharmaceutical qualifications can be multiplied indefinitely through unqualified channels."

ISLE OF WIGHT BRANCH.—"Under existing circumstances we, as a Branch, oppose any examination or registration of assistants by the Pharmaceutical Society."

The Torquay Branch submitted a long statement on which the secretary was instructed to communicate with the Branch. The following resolution from the Eastbourne Branch was also received:—

"That it is the opinion of this meeting that every endeavour should be made at all levels to secure the representation of pharmacists on Hospital Management Committees."

Miss M. C. Islip and Dr. B. A. Young were appointed to represent the Society at the eighth International Hospital Congress, London, May 25-30, 1953.

The report of the Law Committee showed that, in November 1952, the Society's inspectors and agents visited 1,595 authorised sellers, 128 listed sellers, and 908 drug store proprietors and similar traders.



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## Dangerous Drugs Control

THE annual report of the Permanent Central Opium Board published this week includes an account of the present state of drug control under international conventions. Deficiencies and discrepancies in the statistics from the principal opium-producing countries emphasise the need for regulating the production of raw materials in relation to their consumption in the manufacture of Dangerous Drugs. The object of the Board's control of the illicit movement of narcotics is to prevent diversion to illicit ends. In the light of this factor the statistics show two things: (1) The impossibility of determining data in regard to opium, coca and cannabis; and (2) the doubling of a number of narcotic drugs in use during the past five years. Over-production of opium continues to hamper control at the highest level. In Persia, for example, 333 tons apparently disappeared in 1950. That discrepancy was explained by exports amounting to 240 tons (instead of 43 tons as previously reported) and by loss of 135 tons in drying and manipulating stocks. On the other hand, 200 tons mysteriously reappeared in 1951 stocks and form the subject of further inquiry. The fact that 500 tons of opium has been offered for open sale in Hong Kong by the Chinese Government illustrates the vested interest in illicit traffic in opium as a source of foreign exchange. The Board has asked whether the cultivation of opium poppy and the export of opium are still prohibited by the People's Republic of China.

It is noteworthy that the Economic and Social Council of the United Nations has decided to hold an international conference from May 11 to June 19, 1953, for the purpose of drafting and adopting a Protocol for regulating the production of opium. Only a fraction of coca and cannabis find a use in licit demand; total production cannot be conjectured.

The statistics regarding manufactured drugs are gaining in completeness and accuracy. The trends are as follows:—Production of codeine is on the increase, reaching 65.4 tons in 1951 (from 17.2 tons in 1934 when statistics started). Total production of morphine shows the same tendency since 90 per cent. is used for the production of codeine and ethylmorphine. There is a fall in the amount of morphine used as such in medicine.

Attention is directed to the very high consumption of diacetyl morphine in Australia, Finland and certain other countries (including the United Kingdom), and the Board is gratified by the general trend towards lower consumption. In particular the Australian Government is making a thorough inquiry into the

reasons for the increase in the medical use of the drug. By contrast, the illicit diversion of the drug, which is the main source of addiction in the United States, is not sufficiently stressed. It is simply stated that the Italian Government in 1951 suspended manufacture until further notice and that a new law had made it possible to strike at the source of supply "which in recent years has acquired and disposed of large quantities of heroin." In Trieste seizure of narcotics and arrest of traffickers has shown the existence of the traffic through that Free Territory.

The medical use of narcotics derived from opium shows no sign of diminishing under the impact of new synthetic drugs. The statistics for pethidine serve to show a rapid increase in production, but otherwise the information available is too incomplete as regards drugs covered by the 1948 Protocol.

## Servant or Agent?

WHEN a person is engaged solely on a commission basis, or on a partly-salary and partly-commission basis, the question arises what are the employer's and what the employee's rights if the services should terminate before the contract period has run its course. That may happen, for example, when the employer sells his business and decides to retire, or closes it for lack of trade, or when the premises are put out of action by fire or other cause. Is the employee then entitled to compensation in respect of the sum he could reasonably have expected to earn for the balance of the contract period?

The essential question to be answered in such cases is whether the employee was employed as a servant or merely as an agent. Sometimes, as actual cases show, it is difficult to draw the line.

An employer is not bound to reimburse an agent for the remuneration he would have earned from orders, etc., had the employment not been prematurely terminated. But if the employment was in fact that of a servant, then even though remuneration was on a commission basis for orders obtained on sales affected, the employer who prematurely terminates the employment is liable to compensate the employee for his loss of earnings during the remainder of the period. The same rule applies even if the agreement is terminated by proper notice, but compensation is then payable for the period between the date of giving notice and the date of its expiry.

The reason for this policy is that, in business contracts, the law, with the object of giving to the transaction such efficacy as both parties must have intended that at all events it should have, implies necessary terms into the contract where the contract is silent about them. The implication in contracts of the kind under discussion is that the employer must find a reasonable amount of work for the employee to enable him to earn the remuneration the parties expected he was reasonably likely to earn. Of course, it is open to the employer and employee to make special provisions for contingencies to their rights in the event of the contract being prematurely terminated.

Decisions in which the Court held that the contract was one of service, and not of agency, include *Turner v. Goldsmith* (1891), in which the defendant, a manufacturer, had contracted to employ the plaintiff as his agent and traveller for five years on a commission basis. The manufactory was destroyed, and the defen-



dant ceased to employ the plaintiff. The Court held that the contract was one of service, and that the destruction of the manufactory did not afford any ground for non-performance of the agreement. In *Devonald v. Rosser & Sons* (1906), the plaintiff, who was employed as a workman, was on piece work. Owing to slackness of trade the employers closed down their works and gave the plaintiff a month's notice. The court held that a term was to be implied into the contract that the plaintiff was to be provided with a reasonable amount of work during the period of his employment, and that he was accordingly entitled to damages for the work he might have done between the closing of the works and the expiry of his notice.

In the recent case of *Bauman v. Hulton Press, Ltd.* (1952), the plaintiff was employed on terms that he was to receive a retaining fee of £10 per week and payment at specified rates for work done by him. The defendants later terminated the employment by notice. The Court held that the contract was a contract of service, only to be terminated by proper notice, and that the notice that had been given was insufficient, a reasonable notice for the purpose being six months. The Court also held that, in order to give business efficacy to the agreement, a term was to be implied that throughout the duration of the contract the defendants were bound to give the plaintiff a reasonable amount of work so as to enable him to earn the amount of remuneration which it must have been in the parties' contemplation he might reasonably earn.

Cases in which the contract was held to be one of agency include *Rhodes v. Forwood* (1876). In that case the plaintiffs had been appointed sole agents in Liverpool for the products of the defendant. Their remuneration was to be by way of commission at the rate of £3 per cent. The appointment was for seven years and the plaintiffs contracted not to act for any other principal in Liverpool. At the end of four years the appointment was terminated as the business was sold. The Court held that the contract was one of agency, and that accordingly no term could be implied into the contract that the business would not be sold. In *Northey v. Trevellion* a ten-year contract was held to be one of agency, since there was no subordination of the employee to the employer. In that case the Court also declined to read into the contract any implied term that the person employed was to be provided by the employer with the means of earning his remuneration, which was on a commission basis.

## Onward from Galen

### A CURRENT CAUSERIE

MEMBERS of the Council of the Pharmaceutical Society are apparently becoming more alive to their responsibilities, for it is reported that, at their January meeting (see p. 57), observers attending were able to hear what was being said. It would have been pleasant to imagine each member of the Council, perhaps in fulfilment of a New Year resolution, embarking upon a course in speech training and voice production. But no, the case is otherwise. The Council-room clock, whose chimes often sounded in unintended alliance with that other effective silencer, the flag, had been sent away for repair. Any change (even a temporary one) that results in widening the public for the pronouncements of the governing body is to be welcomed. Would it be in order to suggest that after its repair the clock should be found a new home outside the Council chamber? Perhaps then visiting members might find themselves hearing such unaccustomed

sounds as the Council giving sympathetic consideration to the conclusions reached after much trouble by active members of the Society and embodied in resolutions passed at Branch Representatives' meetings.



IN the course of a discussion on the provision of a chemist's shop in the Bradley suburb of Huddersfield by Huddersfield Executive Council recently, Mr. L. H. Fawthrop (chairman of the Huddersfield Pharmaceutical Committee) pointed out that a population of 6,000 to 8,000 was necessary for the successful opening of a pharmacy. He explained that, with overhead expenses at their present level, few pharmacies could exist on the income from dispensing alone. The question of ratio of population to chemists' shops is both interesting and controversial, because it tends to open up the subject of limitation of the number of pharmacies, a question that was discussed at the Branch Representatives' meeting in London in May 1952 (*C. & D.*, 1952, I, 786), when Mr. H. M. Hirst criticised local authorities for building housing estate shops catering for only 500 to 1,000 houses. It would take years for such shops to earn anything more than a bare living, said Mr. Hirst. Bradley is a case in point, because there the rate of building is reported to be 200 houses a year, with an eventual population increase in six years of 3,000. Dr. D. McCall (the Pharmaceutical Society's resident secretary in Scotland) has given his own opinion on the economic head of population per pharmacy as 6,000, a figure that is almost double the one for England and Wales (see *C. & D.*, 1952, II, 774).

## CORRESPONDENCE

*Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.*

### "CHEMISTS ONLY"

SIR,—We are now graciously informed that a new vitamin syrup product will be a "Chemists Only" line—presumably until we have stocked, displayed, recommended and established it. Then it will be passed over to the grocer and general store for wider distribution, as was its forerunner. What short memories some sales managers think we chemists have.

RIBES NIGRUM

### ACTH FROM OX GLANDS

SIR,—In the issue of your journal dated January 10, there is a paragraph under the heading of "ACTH from Ox Glands" which definitely states that all other ACTH supplies in the world come from the pituitaries of pigs. We must point out that this statement is totally incorrect. The Armour Laboratories, Chicago, U.S.A., have been producing and offering, specifically labelled, their ACTH produced from bovine pituitary glands for the past two years. Furthermore ACTH from this source of raw material has been used by the medical profession in the United Kingdom, in agreement with the Ministry of Health, when ACTH from such origin has been requested.

LONDON, E.C.1

THE ARMOUR LABORATORIES

### FAIR TO CHEMISTS

SIR,—In reply to the letter published under the heading "Unfair to Chemists" (*C. & D.*, January 10, p. 39) we feel that we should state that we have in fact received a communication from the chemist who signs himself "Fair Play." We replied to him and explained that the advertisement referred to was due to an error and should never have gone to press in the form complained of, and we confirm that no further advertisements bearing the offending text will appear. Nothing could be further from our minds than to take any action which would damage the very friendly relations which have always existed between our chemist friends and ourselves, and we are more than sorry that this mistake occurred.

LONDON, W.C.2

COLGATE-PALMOLIVE-PEET, LTD.



# A Centennial Tribute to JONATHAN PEREIRA, F.R.S.

(first professor of materia medica of the  
Pharmaceutical Society of Great Britain)

By W. R. BETT, M.R.C.S., L.R.C.P., F.S.A.Scot.



**I**N the centennial month of his death Jonathan Pereira is remembered, not as an original investigator, but as an indefatigable and discriminating collector and reviewer of scientific facts, and as a man whose unquenchable thirst for knowledge and incredible industry crowded more accomplishments into the space of some thirty years than are usually contained within several longer lives.

Son of an underwriter at Lloyd's, Pereira was born in Shoreditch, London, on May 22, 1804. Having finished his preliminary education at an academy in Queen Street, Finsbury, he was apprenticed at the age of fifteen to an apothecary in City Road and during that period acquired a sound knowledge of Latin. When his master had a mental breakdown, the pupil entered St. Bartholomew's Hospital as a medical student in 1822, and qualified L.S.A. on March 6 of the following year. Before he had reached the age of twenty, he was appointed apothecary to the Aldersgate Street General Dispensary, where two years previously he had studied chemistry, materia medica, and medicine under

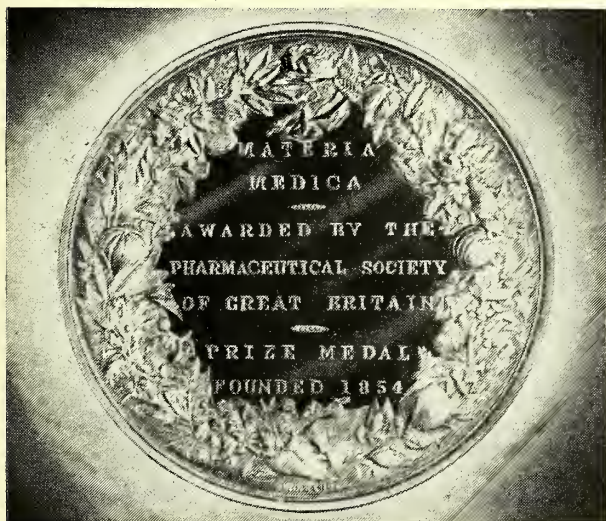
On June 3, 1825, Pereira was admitted M.R.C.S., and in the following year succeeded his teacher Henry Clutterbuck as lecturer on chemistry at the Dispensary. He was only twenty-two at the time, but his commanding presence was said to make him look much older. Between 1828 and 1841 he delivered two or three lectures on materia medica every day. On his marriage in September 1832 he resigned the post of apothecary in favour of his brother, and began to practise as a surgeon in Aldersgate Street. That same winter he became professor of materia medica in the new medical school that took the place of the old Dispensary, and in 1833 he was made lecturer on chemistry at the London Hospital Medical School. His lectures were evidently well received, for they were published in the *Medical Gazette*, republished in India, and translated into German.

Scientific and academic honours were showered upon him in rapid succession. In 1838 he was elected a Fellow of the Royal Society, and a year later examiner in materia medica to the University of London.

The two parts of his *magnum opus*—The Elements of Materia Medica; comprehending the natural history, preparation, properties, composition, effects, and uses of medicines—were published in 1839 and 1840. The first volume, which was dedicated to Dr. Clutterbuck, was sold out before the appearance of the second. It was a compendium which for long enjoyed European popularity and renown. To the modern taste its wealth of learning is almost embarrassing, but our forefathers must have been made of sterner stuff. Preparation of the book entailed an enormous amount of work. The author, who was possessed of an iron constitution, rose daily at 6 a.m. and worked steadily for sixteen hours, surveying and critically analysing the entire literature, ancient and modern, rejecting doctrines built on insecure and conjectural foundations, and taking German and French lessons for the purposes of his work. The strain was obviously too much even for his robust health, and he had several epileptic fits during the period of writing. He had nearly completed a third edition when he died.

Pereira's appointment as first professor of materia medica at the school of pharmacy attached to the Pharmaceutical Society of Great Britain came in 1842, the year following the Society's foundation. He delivered the first complete course of lectures on the subject ever given to pharmaceutical chemists in England.

With his election to the Fellowship of the Royal College of Physicians of London in 1845, Pereira's practice as a physician increased greatly, and six years later he became full physician to the London Hospital, resigning the chair of chemistry in the medical school. He died suddenly of heart disease at the age of forty-nine on January 20, 1853. A few weeks previously, while visiting the Hunterian Museum, he had fallen and ruptured the tendon of his right rectus femoris muscle. He was buried in Kensal Green Cemetery. His memory is kept green by the Pereira medal of the Pharmaceutical Society, by *Myrospermum pereira* (*Myroxylon pereira*), the source of balsam of Peru, and by a marble bust in the London Hospital.



Reverse of the Pereira medal. Pereira's head, reproduced as part of the title of this article, is from the obverse of the medal.

Dr. Henry Clutterbuck, natural philosophy under Dr. George Birkbeck, and botany under Dr. William Lambe. To augment his modest salary of £120 per annum he conducted a private class, for the use of which he translated the London Pharmacopœia of 1824. He also wrote a number of books on subjects in which he found the students most deficient, for example: *Selections from Physicians' Prescriptions* (*Selecta e Præscriptis*) in English and in Latin (1824); *Manual for Medical Students* (1826); and *A General Table of Atomic Numbers* (1827). The first of these had an extensive sale both in Great Britain and in the United States of America. The eighteenth edition was published in 1890. The little book bristles with footnotes, which display the compiler's formidable erudition. A few tell quite amusing stories.



# AN ELIZABETHAN CHEMIST'S ADVERTISEMENT

By HOWARD BAYLES

IN the introduction to "The newe Iewell of Health" (1576), George Baker names four London chemists who prepared medicinal waters, oils, balms, quintessences, and salts. The passage, with its archaic spelling, may be quoted:

"I doe know some most excellent, as one mayster Kemech an Englishe man dwelling in Lothburie, another, mayster Geffray, a French man dwelling in the Crouched friers, men of singular knowledge that waye, another named John Hester dwelling on Powles wharfe, the which is a paynfull traueyler in those matters, as I by prooffe have seene, and vsed of their medicines to the furtheraunce of my Patients healthes, and also one Thomas Hyll, who for his excellent knowledge in this Arte, is not to be left out, who dyd also take paynes in this worke, but before it coulde be brought to perfection, God tooke him to his mercie: There are yet others excellent men, which for breuitie I leave at thys present."

One of these four, John Hester, issued a broadside advertising his preparations and offering to give instruction in chemical processes. The sheet reproduced (damaged on the right-hand side) bears the name of the formidable Gabriel Harvey and the date 1588. In the British Museum General Catalogue the year 1585 is assigned, with a question-mark, to the leaflet. In its present state it measures 11½ by 7½ in.: it came to the Museum from the Cottonian Library. The written remarks also include "now M. Keymis, the great Alchymi [st] of London," probably Hester's successor in business.

## Hester's Six Groups

The products listed are grouped under six headings. They comprise forty-nine oils, nineteen waters, forty-one salts, fifty substances named (in the singular) *Extractio vel Essentia*, forty-one "Compositions of divers Authors," and about thirty items headed "Certaine Compositions of Leonardo Phirouanti." As might be expected, human skull forms the basis of an oil, a water and a salt. Among other waters are "vineger distilled" and "the spirit of wine." The fifth group includes two "compositions" attributed to "Parac." (Paracelsus), three to Rulandus, and one to Quercetanus. Paracelsus needs no introduction here. Martin Ruland (Rulandus) was born at Freising in 1532 and died in 1602. A. Hirsch ("Biographisches Lexicon der Hervorragenden Aerzte aller Zeiten und Völker") has titles of several works by this author. The preparations sold by Hester from his formulas are balsamum sulphuris, emplastrum diasulphuris and oleum ligni Heracle. I have not found any of these formulas in either Ruland's "Medicina Practica Recens et Nova" (1564) or his posthumously published "Lexicon Alchemiæ" (1612). Quercetanus is the Latinised form of the surname of Joseph du Quesne (1544-1609): he is credited with being a (or the) pioneer in prescribing calomel and sulphurated antimony. Of the other authors named, Palmarius, like Quercetanus, was a sixteenth-century French physician. His full name was Julien Le Paulmier de Grentemesnil; he was born in 1520 and died in 1588. He wrote on contagious diseases and on wounds. The author of a "composition" with the curious name *aquila cælestis* is possibly Georgius Phædro. His collected works appeared in 1611; a selection in English by Culpeper was first published in 1654. I am indebted to Mr. W. J. Bishop, librarian of the Wellcome Historical Medical Library, for identifying Phalopius, Gabriele Fallopio, a famous Italian physician, was born in 1523 and died in 1562. He was a professor at Ferrara and afterwards at Padua, and wrote on anatomy. The Wellcome librarian has also elucidated the mis-spelling Phirouanti, an attempt at Fioravanti, the surname of a sixteenth-century surgeon of Bologna. An English translation of his principal writings was published in 1582. A

balsam bearing his name still appears in "Pharmaceutical Formulas": the French Codex and other Continental formularies have kept it or a modification of it on record during nearly four centuries. A few items in Hester's catalogue are printed in Gothic type.

The articles named in the first five groups conform to what is known of the practice of the period, when chemical substances were challenging the monopoly of long-established galenicals. In a sense, they form a kind of general index to then-existing textbooks. The "certaine compositions" attributed to Phirouanti (Fioravanti) in Group Six are more interesting to a modern reader than the contents of the other groups. At least two of them are nostrums: "La Petra philosophicale nostra" and "Our Caustick." *Oleum de lateribus vel philosophorum* was, no doubt, oil of brick(s); but what was "Aqua Reale, which maketh the teeth white presently"? To Tudor readers "presently" meant "immediately"; if this water was like aqua regia, it would have to be well diluted before use.

It will be noticed that what are now called side-lines are classed in this group. After "Divers and sundrie vernishes" we find "Divers compositions of most strange [?] and terrible fireworks, made by the Spagiricall arte, not heretofore knowen of many." The word "spagiricall" is regarded as an invention of Paracelsus. To their contemporaries the early spagirists or chemists were makers of products requiring the use of heat; a little later this conception was expressed by the writer who described the chemist as "that man of the fire." These strange, terrible fireworks are followed by "A deuise to make fresh water out of the [?] sea] as the ship sayleth, in great abounds [nce] to serue xx. or xxx. me [n] a day, for one shilling charge: and is most holesome, espec[ially] for those that are troubled with moyst [ure] mors: as, the dropsie, and such like. [It] may be kept sweet a yeare." Finally, the advertiser offers "diuers other secretes not her [e set] downe." A reasonable guess about the "deuise" to make fresh water from sea water is that it was some kind of portable still.

## Inferences

Three inferences may be drawn from this valuable evidence of sixteenth-century London chemists' activities.

(1) Dr. George Urdang recently suggested that, for some years after the introduction of chemical medicines into England, the chemist and the distiller were often the same person. The broadside here reproduced lends support to this suggestion. The substances in Hester's first four groups, and certain others, are products associated with distillation.

(2) The side-lines named in the sixth group have a double interest. Not only do they disclose the kind of trade carried on by this chemist-distiller or distiller-chemist, but they set the pattern, as it were, for many traders who followed him in the same vocation. It seems probable that Hester regarded the side-lines and nostrums of this group as yielding better profit than the items in the other groups: hence his use of more conspicuous type. It may even be that he doubted whether, in competition with other makers, his revenue from oils, waters, salts and so forth would furnish a satisfactory income.

(3) The names of discoverers or inventors of medications appearing in the catalogue suggest a considerable knowledge of European chemical practice. We have long known that there was frequently a time-lag between the announcement of a new chemical or a new chemical process in a book by a Continental author and the adoption of that substance or process in England. From the use of certain surnames by Hester, it seems clear that communication with experimenters in other countries, including the importation of books by them, was well established in the latter part of the sixteenth century.



# These Oiles, yvaters, Extractions, or Essence

Saltes, and other Compositions; are at Paules wharfe ready made to be solde, by

JOHN HESTER, practicioner in the arte of Distillation; who will also be ready for a reasonable stipend, to instruct any that are desirous to learne the secrets of the same in few dayes, &c.

1.

## Oyles of

Cinamon.  
Cloues. (Maces.  
Nutmegges.  
Pepper. (Ginger.  
Anniseedes.  
Fennell feedes.  
Dyll feedes.  
Carraway feedes.  
Commin feedes.  
Baie berries.  
Iuniper berries.  
Mustard feedes.  
Orange pilles.  
Lemmon pilles.  
Sweete margerum.  
Rosemary flowers.  
Sage. (Time.  
Origanum.  
Hylope.  
Mintes.  
Lauender.  
Penniroyall.  
Camomill flowers.  
Waxe.  
Honnie.  
Turpentine.  
Frankensence.  
Colophonit.  
Carabe or Amber.  
Ier or Gagates.  
Benzoin.  
Storax liquid.  
Labdanum.  
Amoniacum.  
Galbanum.  
Sagapenum.  
Masticke.  
Castoreum.  
Egges. (Butter.  
Tartar.  
Cranij humani.  
Lignum vitæ.  
Fraxini.  
Genistæ.  
Oleū tartari fatens.

2.

## VVaters of

Cinamon.  
Cloues.  
Nutmegges.  
Frankensence.  
Turpentine.  
Honnie. (Waxe.  
Egges.  
Hartes horne.  
Amoniacum.

Carabe or Amber.

Gagates or Jett.

Aqua fortis. +

Aquarceis.

Aqua spermatis Ra-

narum. "

Vineger distilled.

The spirit of wine. +

Aqua fragrantia cum

spiritu vini. +

Aqua Cranij hu-

mani. "

3. Saltes of

Cinamon.

Cloues.

Nutmegges.

Ginger.

Pepper.

Rosemary.

Sage.

Time.

Marioram.

Origanum.

Mintes.

Hylope.

Briony.

Centuary.

Fumitory.

Penniroyall.

Hiperico or S.Iohns

worte.

Mugwort.

Polipodie.

Piopy.

Petherfewe.

Chammpitheatos.

Eye bright.

VVormewood.

Broome.

Athe.

Beane stalkes.

Iuniper.

Lignum vite.

Zarfa perilla.

Eleborus niger.

Sal vini.

Sal virini.

Sal cranij humani. "

Sal aceti.

Sal tartari.

Sal tartari christallini.

Sal vitrioli.

Sal vel saccharum

plumbi.

Sal lythargiij.

Sal conditum? Phiro-

uanti.

## 4. Extractio vel Essentia.

Rhabarbari.

Elebori nigri.

Hermoadalilorum.

Secna Alexandria.

Polipody.

Brionia.

Gentiana.

Angelica.

Sabina.

Agrimonia.

Vinca peruinca.

Betonica.

Chelidony.

Abfuthy.

Chamomilla.

Salvia.

Ruta.

Parthenionis.

Boonia.

Iuniperi.

Florum genista.

Colocymbida.

Soldanella.

Laureola.

Alloa.

Agarici.

Cnici seu Carthami.

Enforbij.

Segapeni.

Squilla.

Sarcocolla.

Aristolochia.

Cantharides.

Tanacetum.

Marubij.

Enfragie.

Calendula.

Tormentilla.

Philopendula.

Hisciami.

Fumiterra.

Chamipiteos.

Spica nardi.

Zedoaria.

Zinziberis.

Croci.

Piperis.

Corticis aurantia.

Extractio Amuleti.

Palmarij.

## 5. Compositions of diuers Authors.

Phlegma, spiritus, Oleum, & sal vitrioli.

Mumia vel Balsamum vitrioli.

Creta vitrioli. (Crocus martis.

Oleum tartari fatens.

Oleum aceti. (Oleum sulphuris.

Balsamum sulphuris, Rolandi.

Emplastrum Diasulphuris, eiusdem.

Rubinum sulphuris, cum spiritu vini. +

Flos sulphuris.

Sulphur vitriolatum.

Oleum Camphoræ.

Oleum ligni Heracle, Rolandi.

Magisterium, vel essentia perlarum.

Coral dissolued.

Vitrum Antimonij.

Mercurius Antimonij.

Flores Antimonij.

Aquila Celestis, Phedronis. +

Turpetum minerale, Quercetani.

Turpetum Leonificatum diaphoreticū,

specificum Parac.

Panchimagogon specificum, eiusdem. +

Laudanum Anodinum specificū, eiusdē.

Mercurius sublimatus.

Mercurius precipitatus.

Oleum siue mumia tartari.

Aqua oleum, & sal ligni vitæ. +

Aqua Theriacalis.

Calx testarum ouorum, & lymarum.

Emplastrum fodicationis, vel sticti.

Amuletum Palmarij. (Parac.

Aqua aluminis magistralis.

Oleum benedictum Phalopij. (F.

Gibsons Balme.

6.

7. Certaine Compositions of

Leonardo Phitrouani.

La Petra philosophale nostra.

Pillule Aquillone.

Electuario Angellica.

Dia Aromatico.

Aqua Balsami. Oleum Balsami.

Balsamum artificiale.

Oleum Hypericonis compositum.

Electuarium magistrale, for the cough.

Magno licore. Vnguento magno.

Elixir vitæ. Aqua preseruans.

Cerote magistrale.

Oleum benedictum nostrum.

Oleum philosophorū de terebinthina.

Vnguentum ex litargiro, (C.

Dur Causticke.

Aqua Reale, which maketh the teeth in

presently. decoratise.

Water and oyle of Petra vegetable.

Pillule contra morbum gallicum.

Oleum de lateribus vel philosophorū.

Sirope del Ebulo Compositum.

An unction against contraction of sinowes.

Diuers and sundry vernishes, both for

ners, Baywaters, and Limmers. +

Also liquid gold and silver to write with.

Diuers compositions of most strange

terrible fireworkes, made by the Sp.

ricall arte, not heretofore knowne of

up. + Prothemia.

A druse to make fresh water out of the

as the ship sapleth, in great abundance

to serue xx. or xxx. in a day, for one shil

charge: and is most holisome, espec

for those that are troubled with mayst

+ moys: as, the dropsie, and such like.

may be kept sweet apeare. +

Also a certaine kind of pitch for trimm

ships: Which water, nor sunne, nor

can consume in long time. +

Lastly diuers other secretes not her

etowne.

Now M. Keymis, the great Alchym

of London FINIS.

gabriel harvey. 1688.



# Some observations on GROSS PROFITS

and how they are affected by the conditions of today

BY S. V. BROWN, F.A.L.P.A., F.V.I.

**M**ANY chemists throughout the country have been extremely worried recently owing to the apparent fall in the gross profit percentage as shown by their audited accounts when published.

## Complicating Factors

Gross profits, of course, represent the difference between the cost of merchandise and the amount received as payment by customers for them. Other overheads, such as rent, rates, wages, lighting, heating, etc., etc., are deductible from gross profits to reach net profits. However, for the purpose of this article, receipts include sums received from National Health Service dispensing, which of course comprise dispensing fees, cost of drugs and appliances, etc., and oncost payments. At one time, before the introduction of purchase tax and N.H.S., it was not difficult to estimate gross profits or average them. It would have been fair to say that, prior to 1939, an average gross profit for chemists throughout the country was about 33½ per cent. Few chemists made less than that but some who had a heavy N.H.I. connection could make up to 40 per cent. and perhaps even more. On the whole, however, those cases were exceptional. Nowadays gross profits vary widely according to the type of business. Cash turnover, even when merchandise is bought on the best terms, rarely shows a gross profit in excess of 24 per cent. It is more likely to be less than more, as the heavy purchase tax, particularly on toilet articles, has a dire effect. In order to raise that percentage to an economic level it is necessary to have a reasonable N.H.S. connection. The writer estimates that, if a pharmacy is run under management at the present time, the cost of such management is 23 per cent. of turnover, which means that, in the absence of a reasonable N.H.S. dispensing connection, the business can only produce an ordinary salary for the pharmacist in charge. That has an effect on the sale of such businesses, of course, as few pharmacists are desirous of investing substantial capital to obtain a net profit which is no more than they can earn in employment.

Gross profits on N.H.S. dispensing also vary considerably according to the average per prescription.

The information needed for working out the percentage gross profit for each month for which a contractor has had final payment is available to him from the particulars given in Form EC34, Part B, which accompanies the Executive Council's remittance. All that need be done is to divide the total payment for "drugs and appliances" by the total number of prescriptions, and the total "value of dispensing fees" by the total number of prescriptions, thus arriving at the average value of drug and fee payments per prescription. The average dispensing fee and one-fifth of the average drug cost are added together and expressed as a percentage of the average drug cost and average fee added together. For example, where "value of drugs and appliances" amounted to £120, and "value of dispensing fees" amounted to £50 for 960 prescriptions, the average ingredient value and the average dispensing fee would be 30 pence and 12.5 pence respectively and the percentage gross profit would be 43.5 per cent. (i.e., 6.0 pence plus 12.5 pence expressed as a percentage of 42.5 pence).

The calculation can, of course, be shortened by adding together one-fifth of the gross amount of the payment for drugs and appliances and the gross amount of the dispensing fee payment and expressing that figure as a percentage of the gross amount of the payment for drugs and

appliances and the gross dispensing fee payment added together.

Pharmacists should, then, in theory, be able to gauge what their overall gross profit percentage should be, armed with the knowledge of

- (a) the extent of their cash turnover;
- (b) the extent of their N.H.S. dispensing connection, and
- (c) the average value per prescription.

## Why Payments Should be Checked

It seems reasonably easy in theory but it is far more difficult in practice, as chemists do not know how much is owed to them by the Ministry of Health. When one bears in mind that £100 additional due from the Ministry represents 2 per cent. gross profit on a turnover of £5,000, it will be understood how important it is for pharmacists to endeavour to keep a proper check on the sums due to them.

It is unlikely that the average of National Health Service prescriptions in the ordinary pharmacy will vary to such an extent as materially to disturb the gross profits, but it is extremely important to keep a proper check on "special" prescriptions. When local doctors prescribe expensive proprietaries and the pharmacist is receiving only a very small sum on account, it is quite possible for £200-£300, or even more, to be involved in a short space of time. If a careful check is made of cash turnover and the amount of N.H.S. dispensing, taking care to keep special prescriptions separate, it is possible to have a good idea at the end of the year of the extent of the gross profit that should have been made in the pharmacy. Again, however, it is important to know the proper value of the opening and closing stocks, otherwise it is impossible to know the extent of the gross profits. It is therefore more important than ever for pharmacists not to trust to "luck" and estimate their stock as, in view of the variation in gross profits, they may be hundreds out, resulting in substantial overpayment of income tax.

To sum up, main-road pharmacies relying on passing trade cannot make materially more than 25 per cent. gross profit, and as a consequence have to have a huge turnover to make business worth while. Pharmacies with substantial and extensive N.H.S. dispensing connections can make from 30 per cent. gross profit up to perhaps 38 per cent. gross profit. It is extremely difficult to make more than this latter figure unless the N.H.S. dispensing connection is disproportionately large to the cash turnover and the average prescription value is quite low.

## IPECAC AND THE WHITE MAN

**W**HEN first enteric laid the white man low, the Caballero de Matagrosso called for a gathering of all the tribe of Ipecac.

First to arrive were his stepsons, Minar and Bahia. Next from Central America came his cousin, Nicaragua, with her step brother, Cartagena.

Then, just as the Caballero rose to speak, a dark lithe figure arrived from Johore.

"Friends and relations," said Matagrosso, "the White Man needs our help. I prithee encourage the growth of your rootlets so that man may have more emetine."

Thus it happened that the tribe of Ipecac eased the White Man's burden.

HERBERT A. BERENS



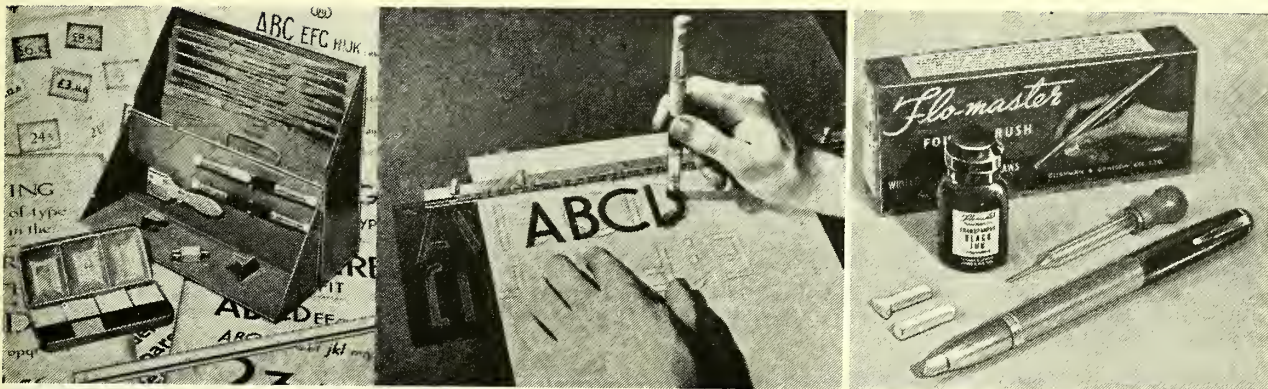


Fig. 1. Left and centre: A stencil outfit; showing method of using brush and transparent stencil (*Econasign, Ltd.*). Right: A felt-nibbed pen-brush supplied with the outfit shown has a reservoir filled like the old-style fountain-pen (*Cushman & Denison Co., Ltd.*).

## Contemporary Methods of PRICE MARKING

CHEMISTS conform to no standard practice in price-marking displayed merchandise. By most of them pricing is, at best, carried out indifferently and spasmodically. A few prefer to avoid the use of price tickets, on the ground either that they are unprofessional, or that they are unnecessary because anyone who is sufficiently interested in a given article shown in the window to wish to buy it will come inside and ask the price.

If the chemist's policy is to exclude prices from his window in order to preserve the professional air of the pharmacy, the principle is understandable and commendable, even though, perhaps, outmoded by concessions to popular appeal in other ways.

No attempt is made here to argue in favour of a more commercial approach by chemists to window and counter showmanship. But it must be understood that, to ensure consistency with that point of view, the method of display adopted ought to be marked by a reticence that is rarely found today. The contents of the windows should be confined to a few articles displayed with dignity and good taste. So often pharmacists who profess that viewpoint fail to support their own theory by practice: their windows contain a medley of merchandise that belies all claims to dignity and professional standing. Where mass methods are employed for displaying merchandise in the window, the argument against the inclusion of price breaks down. If the closely packed window can be justified at all, it is surely on the grounds that it provides opportunity for a comparison of prices.

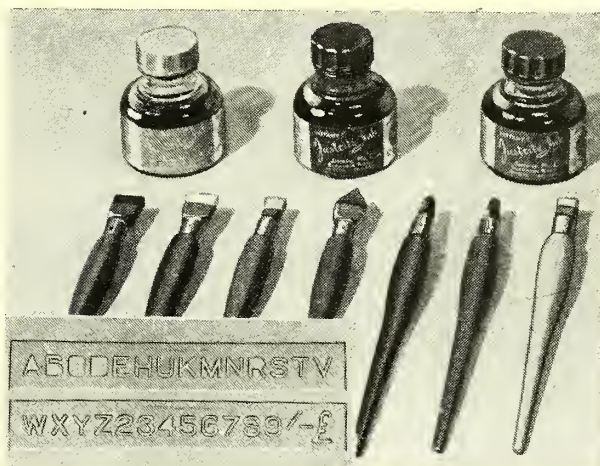


Fig. 3. Felt-nibbed pen-brushes of seven different shapes are supplied in sets with inks of various colours. Inset: A stencil provided with the outfit. (*Justrite Manufacturing Co., Ltd.*).

Worse than showing no price at all in a window filled with miscellaneous stock is the haphazard introduction of price figures, as it irritates and confuses the shopper to be able to see the prices of some goods but not of others. To assume that prices of popular brands of commodities in everyday use are known to all who pause to inspect the contents of the window is unwise.

It would probably not be unfair to say that the main reason for inadequate and inefficient price marking by many chemists is their lack of interest in window display, and their consequent failure to give sufficient time to the task to ensure efficient execution. The work is often carried out perfunctorily, with the sole aim of producing a tolerably tidy presentation in the window. Any necessary writing of price tickets, with the laborious effort of producing legible figures, tends to become a conveniently forgotten addition to a boring task.

### Ticket Writing

But price-ticket writing can be simplified and speeded up by use of one or another of various outfits available in the way of stencils or felt-nibbed pen-type brushes, designed to help those who are unskilled in pen lettering, or can be avoided altogether by the adoption of a "slot" system of price marking, by the use of adhesive figures, or by the "combined operation" of perforated board and plug-in

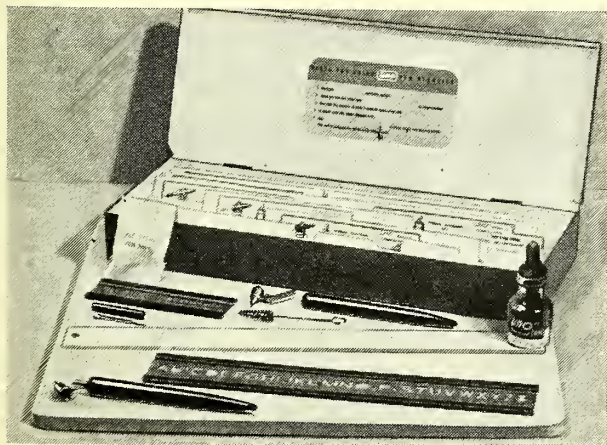


Fig. 2. A stencil outfit with reservoir pens. (*A. West & Partners, Ltd.*)



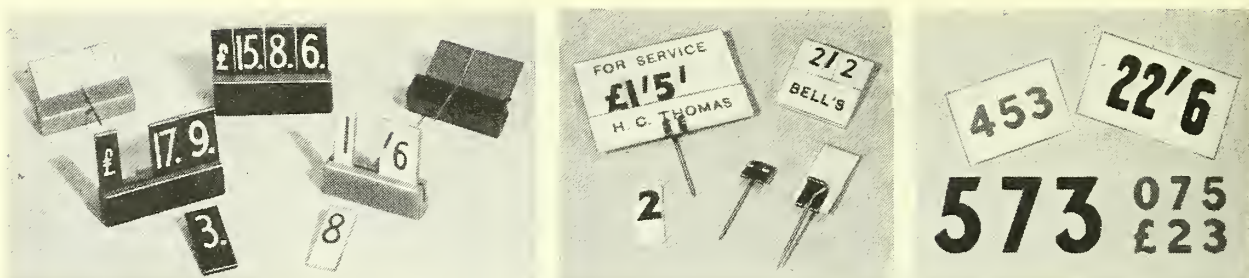


Fig. 4. Left: Slotted bases (with push-in plastic strips marked with figures) made to stand alone or to be pinned to merchandise (William Potter & Sons). Centre: Price markers of this kind are made in quantities to suit individual requirements (Armfield & Co., Ltd.). Right: Self-adhesive plastic figures are available in several colours (Zell-em, Ltd.).

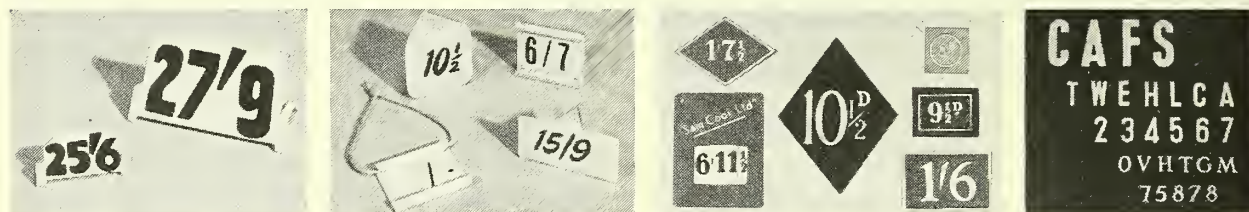


Fig. 5. Left: Self-supporting panels with self-adhesive plastic figures (Zell-em, Ltd.). Left-centre: Top left and bottom right are plain plastic markers upon which figures can be written in wax pencil. Top right and bottom left are hanging or standing types to take slide-in figures (Norman Pendred, Ltd.). Right-centre: Representative types of embossed price-tickets (W. Pritchard). Right: Cork letters and figures with adhesive backs to which moisture must be applied are obtainable in various sizes. Ready for use in natural colour, they can be painted if desired (London Industrial Art, Ltd.).

figures. Another advantage of the new type of price indicators is that, unlike cardboard price tickets, they do not become dog-eared or dirty from constant use.

#### Stencil Outfits

With one of the systems illustrated on these pages, the characters (letters, numerals, punctuation marks, and sundry symbols) are provided in a stencil-sheet of transparent celluloid. The numerals range in size from  $2\frac{3}{4}$  down to  $\frac{1}{16}$  in. The card or ticket is placed on a flat surface and a brass gauge, fitted with a shallow "shelf," is fixed over the ticket with drawing pins. The stencil is lodged against the shelf, to ensure correct alignment, and held firmly with the left hand, while the brush is operated with the right. The outfit illustrated (Fig. 1) is one of a number made by the same manufacturers. It consists of thirty-five stencils, a box of quick-drying paints in four colours, alignment gauges, a box of drawing pins, a set of four felt dampers, with double-ended stencil brushes, and index cards showing the various styles and sizes of type. The brushes and paint-boxes are clipped to the inside of the lid.

#### Raised Stencils

Another system (Fig. 2) uses thin transparent strips of light-blue plastic pierced with the outlines of figures or letters and mounted between two thicker strips which keep the under surface of the stencil clear of the writing surface, thus preventing the ink from smudging as the stencil plate is moved along. The figures range in size from 2 down to  $\frac{3}{16}$  in. The outfit includes pens made in different sizes, numbered according to the width of line produced by a single stroke, and the characters cut in the stencils are of varying styles and sizes. The pens have reservoirs into which a few drops of ink are placed by means of a dropper. The flow of ink is controlled by a wire plunger which, moved rapidly up and down immediately before the pen is used, results in a smooth and steady flow.

In another stencil system the stencil, made of tough laminated plastic, is not itself used as a direct lettering medium but serves as a guide for a writing arm, which can be adjusted to produce letters of any size desired.

#### Felt-nibbed "Pen-brushes"

Somewhere between a pen and a paintbrush, felt-nibbed "pen-brushes" are produced in two forms. One is dipped into the instantly drying colour in the same way as a pen

into ink. With the set (Fig. 3) six bottles are supplied, in a choice of twelve colours, and the pen-brush (in nine different sizes) is used either free-hand or with stencils forming part of the outfit.

The other type (Fig. 1, right) works on the same principle as a fountain-pen, the ink being fed in by a glass filler with a squeezable rubber bulb (similar to the feeder used before the arrival of the self-filling fountain-pen). When the felt nib is pressed down on to the writing surface, it causes an automatic spring valve to open and thus to release a suitable quantity of ink. Release of the pressure closes the spring valve and seals the ink in the barrel so that it does not evaporate. This outfit includes a bottle of oil-based ink, which is obtainable in a wide range of colours.

#### Ball-pointed Pens

Though not devised for ticket writing, ball-pointed pens provide a useful means of quick production of hand-written price tickets. One maker supplies the ink as a viscous paste in an extremely thin aluminium tube. There is a choice of five colours: black, blue, red, green and violet. By first outlining the figures the user can produce price figures with colours selected to blend with the display.

#### Wax Pencils

For writing on opaque white, washable, plastic surfaces, now available in almost any size as an alternative to cardboard tickets, wax pencils are most suitable. The pencils can generally be bought at stationers' shops or, alternatively, from the makers of plastic price markers. It may be worth noting that some retailers have found that a leather dye, obtainable in black or colours from hardware stores, is better than ink for writing on ordinary cardboard tickets, because it dries more quickly.

#### Applied Figures

If the chemist spends an hour or so studying the windows of his contemporaries in other trades he will discover that written price tickets tend to be little used. Indeed, tickets of any kind are a diminishing feature of shop windows. They are being supplanted by the more durable, more dignified, more easily washed, neater and tidier plastic price marker. The change (which has not been rapid) appears to have been brought about without the cognisance of most chemists. Two weeks of close observation of chemists'





Fig. 7. Left: Plastic markers joined by side slots and flanges (*Plastic Fasteners, Ltd.*). Centre: Plastic figures and letters with slotted bases; back screens provide support for second and third tiers (*Plastic Fasteners, Ltd.*). Right: Another example of slotted bases with slide-in letters and figures (*Kennet Price Markers Co.*).



Fig. 8. Pinewood strips (slotted to take plastic price markers) for fitting on to the edges of these shelves in a pharmacy. Inset: A close-up view (*Falconcraft*).

windows in more than a score of suburban and provincial shopping centres failed to discover one in which the new price markers and systems of price marking are being applied. That may be partly attributed to the fact that many of the windows were too crowded to allow the modern methods to be used to advantage.

Whether he thinks in terms of ticket writing or price marking, the chemist can simplify and systematise his methods by acquiring one or two complete outfits. In that way he will avoid the use of a miscellaneous and untidy collection of price markers in his window. The aim should be never to use more than one kind in any one window at one time.

#### Plastic

Plastic flexible figures in six or more different colours (Fig. 4, right) and many different sizes may be obtained for use with glass or white plastic surfaces and they can be attached to the surface without the aid of any adhesive preparation.

#### Cork

Sets of gum-backed cork figures (Fig. 5, right) are also obtainable which are easily applied to any smooth surface merely by moistening the gum at the back.

#### Magnetic

There are also magnetised figures used in conjunction with metal panels made to fit on the necks of bottles or fitted at the back with struts for standing independently. Each of these figures is fitted with a permanent magnet. Price markers of this kind can be obtained individually or as part of a set of letters and figures which includes a stencilled board upon which they can be kept when not in use so as to preserve the magnetism and also to enable the user to see at a glance what letters or figures are still available.

#### Embossed

Embossed price tickets (Fig. 5, right centre), produced by simultaneously cutting figures out of gum-backed coloured paper and crushing them into the surface of cards, are obtainable from many sources. Chemists owning a number of shops may find it worth while to obtain an embossing

machine, by means of which they can produce their own price markers of this kind. Embossed figures are used on one variety of plastic price marker (Fig. 4, centre).

#### Plug-in

Another system, made up of letters and figures applied to specially provided backs, comprises rigid moulded characters each fitted with two pins or lugs at the back (Fig. 6) and perforated plastic sheets that can be cut with scissors into small sizes. The perforated material (white, black, or colourless transparent) is laid on a felt pad and the figure is placed in position by pressing the two projections at the back into two of the correspondingly spaced perforations on the sheet.

#### Slot Systems

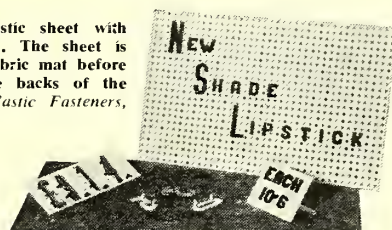
The range of slotted price markers is wide and varied. Most of them are made entirely of plastic; those made of metal have proved less popular, and one maker has discontinued issuing them.

One system of this kind (Fig. 7, right) comprises figures and letters made of solid moulded white plastic, having flanges by means of which the characters can be made to slide into a slotted base of white or grey or black plastic, from which they are easily withdrawn after use for return to the compartmented box in which they are packed.

Another system (Fig. 7, centre) can be built up in an assembly of two or three tiers, so that a message or description can accompany the price. It consists of characters stamped out of plastic sheet and having a flange or strip of the same thickness at the bottom. The characters are in red or black and the bases are white. Each base has three slots: two on top and one in the under surface. One of the top slots provides accommodation for the flanges at the bottom of the figures and letters. In the other is fitted a thin white strip of plastic  $\frac{1}{2}$  in. high and of the same length as the base. This serves the dual purpose of background for the wording or price figure, and support for another base carrying descriptive lettering. The slot in the under part of the upper base fits over the top edge of this strip.

Still another system (Fig. 7, left), considered by some users to be even simpler, consists of small plastic mouldings having sloping fronts  $\frac{3}{4}$  in. high, bearing figures or letters, and formed at an angle with bases of just under  $\frac{1}{2}$  in. depth at the back. There is a slot on one side of the sloping portion and a flange on the other, to form a means of joining up the pieces. The last flange on the left-hand side is covered with a slotted end-piece.

Fig. 6. Perforated plastic sheet with push-in letters or figures. The sheet is placed flat on the soft fabric mat before pressing the lugs on the backs of the letters into the holes (*Plastic Fasteners, Ltd.*).





The method of indicating prices by means of slotted shelf edges is now almost universally applied in self-service shops and the slots form an integral part of the shop fittings. There seems to be no reason why the same principle could not be adopted in the pharmacy operating on normal personal service principles. In fact, the illustration (Fig. 8) shows the system in operation on the shelves of a pharmacy. Application of the system to open-fronted wooden shelves is made possible by the introduction of slotted

strips made of pinewood in either 7 ft. or 9 ft. lengths in a width of 1 in. These are easily nailed to the edges of shelves and then stained or painted to match the existing finish. The markers are made of either transparent cellulose or cellulose acetate and the figures are painted in black on the back surface and then backed by a white material. The figures are thus protected from wear and the front surface of the markers may be wiped over with a damp cloth if it becomes dirty.

## A CENTURY OF SERVICE TO PHOTOGRAPHY

The Royal Photographic Society approaches its 100th birthday

By STANLEY W. BOWLER, F.R.P.S.

THE Photographic Society of London, later to become the Royal Photographic Society of Great Britain, came into being at a meeting held in the Great Room of the Royal Society of Arts in the Adelphi, London, on January 20, 1853. The inauguration took place after notices of a most formal kind had appeared in the Press on behalf

to be given by Mr. Bertram Sinkinson, F.I.B.P., F.R.P.S., F.R.S.A., in the House of the Royal Society of Arts on January 20, since the present Queen is patron of both Societies.

When the Society was founded the collodion wet-plate had only recently been invented (its universal adoption took almost ten years before it eventually replaced the processes of Daguerre or of Fox Talbot). It is generally agreed, however, that Fox Talbot introduced the photographic process in the form of a negative from which any number of positives may be printed, and much of Fox Talbot's original apparatus is conserved in the Society's museum.

Many of those associated with the Society have been and are renowned in fields connected with photography and cinematography. As an example, its first secretary, Roger Fenton, made a photographic record of the Crimean war, with the permission of the British Government. He must have been the first official war photographer. At that time his production of some three hundred large negatives was an extraordinary feat especially as his equipment was bulky, consisting of a large camera, portable dark-room, interior fittings, chemicals and accessories.

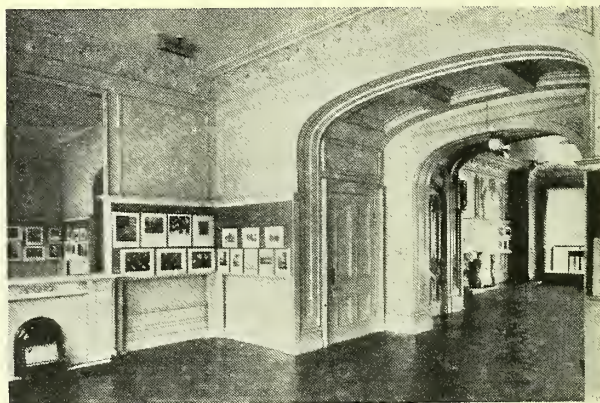
One of the highest photographic honours is the Society's Progress medal. The list of recipients includes twenty-one distinguished persons of British nationality and nineteen of other nationalities, and forms, in effect, also a condensed history of the art and science of photography, for each name represents a special contribution to photography.

The strength and value of the Society is in its membership, faithfully banded together, pledged to promote the art and science of photography in all its branches. It can surely be said that far too little credit is given for the great amount of time and thought devoted to the work of



House of the Royal Photographic Society, 16 Princes Gate, Kensington,

of a group of people seriously interested in photography. The object of the Society, which was to promote the general advancement of photography and its applications, remains, and each member on joining subscribes to the principle of endeavouring to further the art and science of photography. After some years, the title of the society was changed to the Photographic Society of Great Britain, which more aptly described its membership and activities. The word Royal was prefixed when Queen Victoria conferred her patronage on the Society in 1894. Since then the Society's national interests have been greatly expanded and now about a quarter of the total membership of some 7,000 is overseas. It is not surprising, therefore, that it is often referred to, quite shortly, as "The R.P.S." Since 1894, royal patronage has been continuously given, and that fact lends particular point to the Centenary lecture



Meeting and exhibition rooms on the first floor

the Society by its honorary officers, its council members and scores of willing people who form the many working committees dealing with the continuous work of the Society and its varied activities. Supporting these many en-



thusiasts is a smaller group comprising the paid staff of the Society, led now by Mr. Laurence E. Hallet, F.C.I.S., secretary. When it is realised that this voluntary service has been going on for a hundred years it is no idle claim that the R.P.S. has provided a century of service to photography. That this service is continuing is shown by the fact, among others, that in 1953 an international conference on the Science and Applications of Photography is



First floor landing at the head of the main staircase

being organised by the Society to take place in September. Delegates are expected from many countries in Europe and the Americas, many of whom will contribute technical papers. Voluntary workers are playing a large part in planning the arrangements for the Conference.

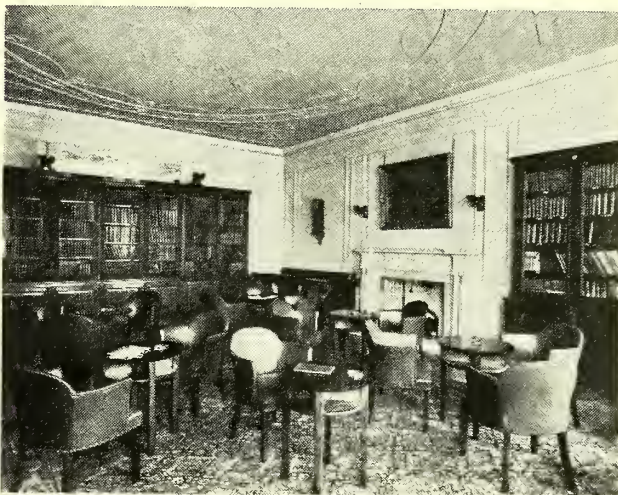
As the Society has grown in numbers over the years it has moved its house from time to time and now has a most beautiful home in Princes Gate, Kensington. It entered into occupation of that house in 1939, when the previous house in Russell Square was pulled down to make space for the new buildings of the University of London. The purchase of the present house was made possible by voluntary contributions. On rare occasions some disgruntled person has commented upon the fact that the Society's house may be excellent for the London member but of little use to the provincial. On the other hand, a French member of the Society was overheard by the writer to refer in glowing terms to the beautiful house in London of "my society," though he had never yet visited the house. The standing of the Society is a source of pride to its members and it is therefore reasonable to expect that it should be well housed.

The many activities of the Society are managed by an elected president, two vice-presidents, and a council, with which are associated committees having special duties. The Society comprises six groups dealing respectively with colour, medical, scientific and technical photography, cinematography, miniature camera matters, and pictorial work. Its official organ *The Photographic Journal* is divided into two parts. Section A appears each month and deals broadly with the Society's general activities, and section B appears in alternate months and is devoted to scientific and technical matters, etc. Some of the groups also produce their own bulletins for the benefit of their members, whilst the scientific and technical group is responsible for the important publication *Photographic Abstracts*.

Membership of the Society continues to be open to all who are interested in photography, whatever their nationality. The Associateship (A.R.P.S.) is granted to members who can satisfy the appropriate admissions committee—which meets twice a year—that they are competent photographers or cinematographers in one or more branches of the art. The Fellowship (F.R.P.S.) is more difficult to obtain, requiring distinguished ability in any branch of photography, with a submission of outstanding merit. In order that young people may grow up in the ways of the Society and so eventually become useful full members there is also a junior membership.

The Society is probably best known in Great Britain and abroad for its annual exhibition. There have been ninety-seven exhibitions, for only in 1862 and in 1866 was it not held. The exhibition is divided into nineteen subsections, and the selection of the exhibits for them calls for the services of more than sixty selectors. It usually takes place in London from mid-September to mid-October and is then transferred to the provinces for a further showing. During the rest of the year there are other exhibitions, often provided by the different groups of the Society, but sometimes consisting of special contributions from outside bodies and from abroad. As an example, there was an exhibition of Italian photography during November 1952.

Informal provincial conferences are also arranged for members of the Society and of affiliated bodies. More particularly since the war, members of the Society's council have lectured in Europe and the Americas on the aims and the work of the Society and have represented the Society at some international conferences.



Members' lounge on the ground floor

The permanent collection of photographs of the Society has been built up over a long period of time, largely by Mr. J. Dudley Johnston, O.B.E., Hon. F.R.P.S. The Society's museum is managed by a small committee of members who devote many hours to the renovation of apparatus and accessories and to arranging them in special rooms in the Society's house. Part of the Society's collection of historical apparatus is also on loan to the national collection of scientific apparatus in the Science Museum, South Kensington.

"THAT'S DISPENSING, THAT WAS."—Lack of parking space never keeps a prescription customer away from the—apothecary shop in Philadelphia. All the patron need do is drive up to a window in the side of the store, leave his prescription, and drive off. Later, he comes by again to pick up the finished prescription. Doctors, too, frequently use the window when they want to pick up drugs or to drop off prescriptions for patients. Store owner—reports that the drive-up window helps him handle over 100 prescriptions a day, despite the heavy traffic congestion near his store.—From the "American Druggist."



## TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

LONDON, JANUARY 14: Business in PHARMACEUTICALS and FINE CHEMICALS and in CRUDE DRUGS during the week was at about the levels attained during the weeks preceding the holidays. Inquiry was again mainly for small lots and covered a wide variety of commodities. The export side appeared to be more active than the domestic market.

A number of price changes in chemicals took effect on January 12. LITHIUM SALTS showed a rise of from sixpence to ninepence per lb. according to the salt—this in face of growing competition from Germany. ZINC OXIDE dropped a further £4 5s. per ton during the week. ROCHELLE SALT was reduced by 20s. per cwt. and a corresponding reduction took effect for SEIDLITZ POWDER at the same time.

Quotations for CRUDE DRUGS were substantially the same as in the previous week, though holders showed a readiness to consider lower bids for some commodities. Black - brilliant COCHINEAL was again a little easier in price, but the silver-grey variety remains scarce on the spot with the previous price-level maintained. Stocks of CURAÇAO ALOES on the spot have been cleared. The market for CORIANDER SEEDS remains quiet, and buyers show no indication for either spot or forward material. Scarcity of CLOVE shipment offers at source was responsible for a 1s. 6d. per lb. rise in c.i.f. values. Quotations for GINGER, both African and Jamaican, were 2s. 6d. per cwt. lower than in the previous week. CARDAMOMS (Aleppy greens) were firmer by as much as 1s. 3d. per lb. for shipment. GUM ACACIA on the other hand was 1s. 6d. per lb. lower.

### Outlook for Honey

HONEY continues to be fairly scarce on the spot and, though further supplies of Australian are due, the crop report from that country indicates that supplies may become difficult in the months ahead. SENNA shipments from Tuticorin during December 1952 were as follows:—

DESCRIPTION	ENGLAND	U.S.	EUROPE
	Bales	Bales	Bales
LEAVES ..	64	525	372
PODS ..	52		152

In ESSENTIAL OILS, LEMONGRASS was firmer and the CITRONELLAS weaker at origin. The lower prices for GINGER (root) have permitted a reduction in the price of the English-distilled oil. EUCALYPTUS remains quiet and steady at former prices, but EUCALYPTOL was reduced by about 2s. per lb.

### UNITED STATES DRUG AND CHEMICAL REPORT

NEW YORK, JANUARY 13: There were few important changes in prices. GLYCERIN demand was strong, with supplies tending to be light owing to lower production. Competitive conditions brought a reduction in THYMOL to \$3.10 per lb., down 20 cents. The pace of the ALCOHOL market has been unchanged, with demand fair and supplies ample. Call for LANOLIN con-

tinued while the supply situation showed little, if any, improvement. In CRUDE DRUGS, higher per lb. is bleached GUM ARABIC at 40 cents, up eight cents. In ESSENTIAL OILS, higher per lb. is DILL at \$4.25 (up 15 cents), and lower are Floridian ORANGE at 70 cents (down 5 cents); CORIANDER, \$21.00 (\$1.50); Dalmation SAGE, \$7.50 (25 cents); and RUE, \$1.35 (15 cents).

### Pharmaceutical Chemicals

BARBITONE. — Rate per lb. for 1-cwt. lots is 24s. The SODIUM derivative is 1s. per lb. more than the base.

BARIUM SULPHATE.—1-cwt. lots of B.P. (x-ray) are 1s. 5d. per lb. and 5-cwt., 1s. 4d. per lb.

BENZOCAINE.—B.P. in 1-cwt. lots is now 22s. 6d. per lb.

BORIC ACID.—Prices for B.P. grade in quantities of 1 ton and upwards are as follows:—Granular, £81; crystal, £88; powder, £85 10s.; extra-fine powder, £87 10s. per ton. In 1-cwt. bags; carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5-cwt., 1s. per cwt.; 3 cwt., 2s.; 1 cwt., 3s.

BORAX.—Prices for B.P. grade, for quantities of 1 ton and upwards are as follows:—Granular, £48 10s.; crystals, £51; powder, £52; extra-fine powder, £53 per ton. Prices of commercial range from £39 10s. to £44 per ton, as to type, and dehydrated borax is £59 10s. per ton in 140-lb. paper-lined hessian bags or £58 10s. in 1-cwt. paper bags; carriage paid in Great Britain. Surcharges for small quantities as for boric acid.

BROMIDES.—POTASSIUM B.P. crystal in 5-cwt. lots is 2s. 8d. per lb.; 1-cwt., 2s. 9d. per lb. Powder is 1½d. per lb. more. AMMONIUM is 2s. 9d. per lb. in 5-cwt. lots and SODIUM, 2s. 7d. per lb.

CALAMINE.—Rates (per lb.) are as follows:—1-cwt. lots, 1s. 11d.; 10-cwt., 1s. 8d.

CARMINE.—Prices are from 75s. to 80s. per lb., according to quantity.

CHALK.—In minimum 1-ton lots powder is £21 and cones, £22 10s. per ton.

ETHER.—Prices (per lb.) in winchesters are as follows:—TECHNICAL, B.S.S. and SOLVENT, 5-cwt., 2s. 4½d.; 10-cwt., 2s. 3½d. ANÆSTHETIC, B.P., 5-cwt., 3s. 9d.; 10-cwt., 3s. 8d. In drums prices are 2d. per lb. less than above.

FORMALDEHYDE. — B.P. solution is 34s. per cwt.

GALLIC ACID.—B.P.C. is 8s. 1d. per lb. for 1-cwt. lots.

GUAIACOLS.—Liquid and crystal are from 16s. 6d. to 17s. 6d.; and carbonate from 17s. 6d. to 18s. 6d. per lb.

HOMATROPINE HYDROCHLORIDE.—In 1-lb. lots price is 75s. per oz.; 4-oz., 80s., and 1-oz., 85s.

IODIDES.—Rates (per lb.) for POTASSIUM are as follows:—1-cwt., 18s. 1d.; 28-lb., 18s. 7d.; 7-lb., 22s. 2d. SODIUM IODIDE is: 1-cwt., 19s. 7d.; 28-lb., 20s. 1d.; 7-lb., 23s. 10d.

LITHIUM SALTS. — Increased. Current minimum rates (5-cwt.) are as follows:—

CARBONATE, B.P.C., 10s. 9d. per lb.; CHLORIDE (commercial), 10s. 3d. to 10s. 6d.; HYDROXIDE, 10s.; CITRATE, B.P.C., 8s. 6d.; SULPHATE, 8s.; SALICYLATE, 9s. 3d. (10-cwt.), delivered.

MANDELIC ACID. — 1-cwt. lots in 28-lb. containers are 10s. 9d. per lb. The CALCIUM SALT is also 10s. 9d., while SODIUM is 11s. 3d. per lb., for 1-cwt. lots.

MERCURY DERIVATIVES. — Quotations (per lb.) for 1-cwt. lots are: AMMONIATED, B.P., lump or powder, 21s. 9d.; PERCHLORIDE, B.P., powder, 19s. 8d.; SUBCHLORIDE, B.P. (calomel), 22s. 3d.; OXIDES, B.P.C. levigated, or yellow, B.P., 22s. 3d.

NICOTINAMIDE. — Prices per kilo are: 1 kilo, 132s.; 50 kilos, 115s.

NICOTINIC ACID.—Prices per kilo range from 85s. 9d. to 97s., as to quantity.

NIKETHAMIDE. — Prices per kilo are: 1 kilo, 121s.; 50 kilos, 105s.

OLEIC ACID. — Price for B.P. is about 153s. per cwt.

PHENAZONE. — British material in 1-10 cwt. lots is 17s. per lb., imported, from 15s. 6d.

PHENOBARBITONE.—1-cwt. lots are 24s. per lb.; SODIUM is 1s. per lb. more than above rates.

PHENOL.—Basic price for B.P. in drums is 1s. 6d. per lb.

PHENOLPHTHALEIN. — Rate for 1-cwt. lots is 11s. 10d. per lb.

RESORCINOL. — Price per lb. for 28-lb.-56-lb. lots is 15s. 6d.; 1-10-cwt., 15s.

ROCHELLE SALT.—Reduced. Rates (per cwt.) for powder or granulated material are as follows: In 5-cwt. lots or over, 180s. per cwt.; 1-cwt., 182s. 6d. SEIDLITZ POWDER, ordinary strength is 144s. per cwt. in 1-cwt. lots; smalls, from 1s. 9½d. to 2s. 0½d. per lb. Extra-strong is 155s. per cwt., and from 1s. 10½d. to 2s. 1½d. per lb. for small quantities. Double-strength is 161s. per cwt.; smalls, 1s. 11½d. to 2s. 2½d. per lb.

SACCHARIN.—In lots of 1-lb. and over B.P.C. powder is quoted at 99s. 10d. per lb.; the SODIUM SALT is 80s. 10d. per lb. Prices include duty and carriage.

SALICYLIC ACID.—Prices are: 5-cwt. lots in bulk, 2s. 11½d. per lb.; 1-cwt., 3s.; 56-lb., 3s. 7d.

SALOL, B.P.C.—Current quotations for quantities of 1 cwt. are 9s. to 10s. 6d. per lb., according to pack: 28-lb., 10s. 6d.; 14-lb., 13s. 0½d.; 7-lb., 16s. 1d.

SODIUM SALICYLATE.—Rates are: 1-ton lots in bulk, 3s. 5d. per lb.; 5-cwt., 3s. 5½d.; 1-cwt., 3s. 6d. Scheduled rates in the home market for 28-lb. and under 1-cwt. are from 4s. 1d. to 4s. 6d. per lb. as to pack.

STRYCHNINE.—Current rates per oz. are given in the following table:—

SALT	Under 25 oz.	25 oz.-99 oz.	100 oz.-499 oz.	500 oz. and over
ALKALOID, B.P.C.	s. 7 10	s. 7 8	s. 6 ½	s. 6 5
BISULPHATE ..	6 8	6 6	6 4	6 3
HYDROCHLORIDE, B.P.	7 5	7 3	7 1½	7 0
NITRATE, B.P.C.	7 5	7 3	7 1½	7 0
PHOSPHATE ..	8 6	8 4	8 2½	8 1
SULPHATE, B.P.C.	6 11	6 9	6 7½	6 6

Special discounts for large buyers.

TANNIC ACID. — Home-trade rate for levis B.P. (ex ether) in 1-cwt. lots is 5s. 9d. per lb.

ZINC OXIDE.—Lower. Rates per ton for B.P. quality are as follows:—2-ton lots, £135 15s.; 1-ton, £136 15s.; 3-cwt., £138 15s.; less than 3-cwt., £141 15s.



## Crude Drugs

**AGAR.**—Kobé No. 1 on the spot is now about 18s. per lb.

**ALGES.**—Prime Cape is unchanged forward at about 157s. 6d. per cwt., c.i.f.; spot is offered at 175s. Curaçao is 340s. per cwt., landed terms.

**ANISE (STAR).**—January shipment offers are about 400s. per cwt. For very small lots of spot material 4s. 6d. per lb. is asked.

**ASAFETIDA.**—Persian block is £15 per cwt., duty paid.

**BALSAMS.**—*Canada.* Spot is about 27s. per lb. for clear bright, paper - filtered. *Copaiba.* Para, spot is 12s. 6d. per lb., duty paid. *Peru* is in limited supply at from 11s. to 11s. 6d. per lb., duty paid. *Tolu* (genuine as imported) on the spot is 21s. 6d. per lb., in original cases and for shipment, 18s., c.i.f.

**BENZON.**—No. 1 Sumatra block on the spot is quoted at from £25 15s. per cwt. and for shipment, £23 10s., c.i.f. Siam almonds are from 20s. to 27s. 6d. per lb., spot, as to size.

**BISMUTH.**—In minimum 5-cwt. lots METAL is 17s. 6d. per lb.

**BUCHU.**—Unchanged. Round leaves are offered at 2s. per lb., on the spot.

**CAMPHOR.**—Chinese (B.P.) powder on the spot is 3s. 6d., duty paid; 4-oz. tablets are quoted at 5s. 9d. per lb., duty paid; 2½-lb. slabs, 4s. 9d. per lb., duty paid.

**CARDAMOMS.**—Aleppy greens for shipment are 8s. 3d. per lb., c.i.f., and spot, 12s. 6d.

**CASCARA SAGRADA.**—American bark, 1951 peel, is about 325s. per cwt., duty paid, and new crop, for shipment, about 300s., c.i.f.

**CAPSICUMS.**—East African on stalk, are 150s. per cwt., spot, and 130s., c.i.f., off stalk are 195s., spot, and 160s., c.i.f.

**CHERRY BARK.**—Thin natural is from 1s. 10d. per lb., duty paid, and roised, 2s. 2d. on the spot.

**CHILLIES.**—Sierra Leone on the spot are 160s. per cwt.; for shipment, 135s., c.i.f., nominal; Mombasa, 200s., c.i.f., and 210s., spot.

**CINNAMON.**—Ceylon for shipment (c.i.f.): OOOO, 2s. 4d.; OOO, 2s. 3d.; OO, 2s. 2½d.; O, 2s. 1½d.; firsts, 1s. 8½d.; seconds, 1s. 7½d.; thirds, 1s. 7½d.; quillings, 1s. 3½d.; featherings, 10½d.; chips, 6½d. per lb.

**CINCHONA.**—Parcels of San Thome, thin to coarse broken quills, testing 7.26 total alkaloids are offered at 1s. 9d. per lb., and British East African chips testing 5.07 t.a. at 1s. per lb.

**CLOVES.**—Firm. Offers of Zanzibar on the spot are 11s. 3d. per lb. and 10s. 9d., c.i.f., for shipment.

**COCHINEAL.**—Black-brilliant is from 8s. 3d. per lb., and silver grey, 7s. 3d., spot.

**ERGOT.**—Portuguese for shipment is 15s. 3d. per lb., c.i.f., nominal.

**GAMBOGE.**—Good average Siam pipe is £40 per cwt., spot.

**GINGER.**—African on the spot is 85s. per cwt., and forward at 80s., c.i.f. Spot quotations for Jamaican are about 112s. 6d. for No. 3.

**GUM ACACIA.**—Kordofan cleaned sorts on the spot are 92s. 6d. per cwt.; February-March shipment, 82s. 6d., c.i.f.

**HONEY.**—Spot supplies of Australian are from 100s. to 115s. per cwt., as to quantity; Jamaican is scarce at from 105s. to 125s.; Argentine material is also scarce at from 120s. to 125s.

**IPCACUANHA.**—Nicaraguan for shipment is steady at 40s. per lb., c.i.f., and Colombian, 38s. 6d., c.i.f. Spot quotations

are: Nicaraguan, 44s., Colombian, 41s.

**MENTHOL.**—Brazilian is 43s. per lb. Chinese, 57s. 6d., both duty paid on the spot. Shipment: Brazilian, 41s.; Chinese, 51s., both c.i.f.

**MERCURY.**—Nominal spot value is £71 per flask, ex warehouse.

**ORRIS ROOT.**—Offers of good quality Florentine are now 155s. per cwt., ex-warehouse.

**PAPAIN.**—East African, grade 1 is 38s. per lb.; Ceylon white, 40s. and sun-dried, 35s., on the spot.

**PEPPER.**—White Sarawak on the spot is offered at 10s. 4½d. per lb., ex wharf, and January-shipment at 9s. 11d., c.i.f. Black Malabar, 1,030s. per cwt., spot, and 880s., c.i.f. Black Sarawak is 9s. to 9s. 3d. per lb., on the spot.

**PODOPHYLLUM.**—*Emodi* root on the spot is 200s. per cwt., nominal, *Peltatum*, 336s.

**QUASSIA.**—Chips on the spot are available at 35s. per cwt.; forward offers are 31s., c.i.f.

**QUILLAIA.**—Forward rates for whole bark are £95 per ton, c.i.f. Spot, £125.

**SANDARAC.**—Morocco is offering on the spot at 14s. per lb.

**SARSAPARILLA.**—Jamaican native red is from 2s. 4d. to 2s. 6d. per lb., as to holder. Shipment is 2s. 1½d., c.i.f.

**SEEDS.**—**ANISE.**—Quiet. Turkish is 145s. per cwt., spot, duty paid, and 132s. 6d. in bond. Cyprus quoted at 145s., duty free in London. **CARAWAY.**—Dutch offering at 92s. 6d. per cwt., duty paid, no business reported at this figure. **CELERY.**—Indian offered at 1s. 10½d. per lb., spot London. **CORIANDER.**—Quiet. Spot: Morocco quoted at 34s. 6d. to 35s. per cwt., duty paid; English is 70s. Shipment: Morocco, 29s. 6d., c.i.f., London.

**CUMIN.**—Cyprus is easier on the spot and for shipment. Spot: Cyprus, 145s. per cwt.; Indian, 180s.; Morocco, 155s., duty paid. **DILL.**—Indian is still quoted at 80s. per cwt., spot London. **FENNEL.**—Supplies are now short on spot. Indian, 220s. per cwt.; mid-European, 185s., duty paid. **FENUGREEK.**—Continues firm. Spot, Morocco is 45s. per cwt., duty paid, and for shipment, up to 39s., c.i.f., is quoted. **MUSTARD.**—English, 80s. to 95s., according to quality.

**SENNA.**—*Tinnevely* LEAVES: Prime No. 1 on the spot are 1s. 6d. per lb.; Prime No. 2, 1s. 3d.; Prime No. 3, 11d.; f.a.q., 10d. PODS, f.a.q., from 1s. 2d. to 1s. 4d.; hand-picked range from 2s. 6d. to 3s., ex wharf. *Alexandria* PODS, manufacturing, 1s. 10d. to 2s. 3d.; hand-picked, 3s. to 6s.

**SHELLAC.**—Unchanged. Spot quotations are:—F.O.T.N., pure, 177s. 6d.; F.O. standard No. 1, 192s. 6d.; fine orange, 215s. to 265s. per cwt., ex-London warehouse.

**SLIPPERY ELM BARK.**—Selected slabs are 4s. per lb., and grinding quality, 3s. 3d. spot.

**SQUILL.**—Italian white new-crop is offered from origin at 55s. per cwt., c.i.f. London. Spot is from 60s. per cwt.

**TRAGACANTH.**—Unchanged. No. 1 ribbon on the spot is £130 per cwt.; No. 2, £110; No. 3, £80.

**VALERIAN.**—Indian is offered at 135s. to 137s. 6d. per cwt., spot. Belgian at about 200s.

**VANILLIN.**—Present rates (per lb.) are as follows:—5-cwt. lots, 35s.; 1-cwt., 35s. 3d.; 56-lb., 35s. 6d.; smaller quantities, 35s. 9d.

**WAXES.**—**BEES'.**—Dar-es-Salaam, spot, 435s. per cwt., March-April shipment, 375s., nominal. Sudanese for shipment, 370s. *Benguella*, 365s., and Abyssinian, 370s., all c.i.f. basis. **CANDELLILA.**—Spot is 645s. per cwt. **CARNAUBA.**—Prime yellow, spot, 1,220s. per cwt.; shipment,

1,150s., c.i.f.; fatty grey, spot, 870s. per cwt., 860s., c.i.f. **MONTAN.**—Reibek crude on the spot is 135s. per cwt. **OURICURI.**—Spot, 0.5 per cent. impurities, 690s. per cwt. **SPERMACETI.**—Case lots are 2s. per lb.

## Essential and Expressed Oils

**ANISE.**—Spot supplies are offered at from 7s. 3d. per lb. for original drums, and for shipment, 6s. 4½d., c.i.f.

**CARAWAY.**—English-distilled is offered at 45s.; imported oils are from 25s. per lb. for spot.

**CARDAMOM.**—Offers are from 275s. to 280s. per lb.

**CASTOR.**—In minimum 2-ton lots the price of pharmaceutical quality for prompt delivery is £201 per ton, naked, ex mill. For February-March delivery the price is £191. **FIRSTS** are £195 and £185 respectively.

**CEDARWOOD.**—Spot quotations for African are from 5s. per lb.

**CHENOPodium.**—1-cwt. lots are 70s. per lb.

**CITRONELLA.**—Spot prices for original drums are: Ceylon, 3s. 6d. per lb.; Formosa, 3s. 8d. in bond; Java, 4s. in bond. Forward: Ceylon, 3s. 3d.; Formosa, 3s. 5d., and Java, 3s. 10½d., all c.i.f., January shipment.

**CORIANDER.**—Russian-seed oil is 160s. per lb.

**CUBE.**—English-distilled is offered at from 50s. to 55s. per lb. Imported is quoted at 60s. per lb.

**CUMIN.**—Quotations for English-distilled oil are about 75s. per lb.

**DILL.**—English-distilled oil is quoted at about 65s. per lb. for B.P. quality. Imported oils are offered at 40s. per lb. with East Indian at 30s., spot.

**EUCALYPTUS.**—Drum lots of 70 to 75 per cent. eucalyptol on the spot are 5s. per lb., and 80 to 85 per cent., 5s. 3d.

**FENNEL.**—Spanish sweet on the spot is quoted at from 8s. 6d. to 9s. per lb.

**GERANIUM.**—Bourbon on the spot is from 70s. per lb.

**GINGER.**—English-distilled oil is from 120s. per lb. Imported oils are available at from 85s. per lb.

**HYDNOCARPUS.**—Spot is offered at 2s. 2d. per lb.

**LAVENDER.**—French, 40-42 per cent. linalol on the spot is from 38s. per lb.

**LAVENDER SPIKE.**—Spanish is about 11s. per lb., duty paid.

**LEMONGRASS.**—East Indian is from 6s. 9d. to 7s. 3d. on the spot and 6s. 9d. per lb., c.i.f.

**NUTMEG.**—English-distilled oil is about 37s. per lb. Imported oil (B.P.) is offered at 25s. per lb., duty paid, for drum lots.

**ORANGE.**—Spot offers for sweet range from 16s. 6d. per lb., as to origin.

**ORIGANUM.**—In original containers the price is 14s. per lb.

**PALMAROSA.**—East Indian is from 45s. to 46s. per lb., on the spot.

**PATCHOULI.**—Seychelles on the spot is offered at 44s. 6d. per lb. and Penang at 50s. Forward offers of Penang at 46s., c.i.f.

**PEPPERMINT.**—*Arvensis*, Chinese oil is quoted on the spot at 33s. 6d. per lb. and Brazilian at 16s. Forward: Chinese, 28s. 9d.; Brazilian, 15s., both c.i.f. Italian "Mitcham" type oil, 49s. to 50s. per lb., as to quality, for original drums, delivered. Forward 51s., c.i.f.

**SASSAFRAS.**—Brazilian natural is offering at 5s. 6d. per lb., duty paid, and 4s. 9d., c.i.f.

**VETIVERT.**—Bourbon in original drums on the spot is about 125s. per lb.



## WORLD TRADE

**Austrian Penicillin Production.**—Austria's penicillin production in 1952 is reported to be in excess of the domestic consumption, leaving a surplus available for export in 1953. Prices there have come down by some 9½ per cent. since 1950 and are expected to be cut still further during the next few months.

**Australian Imported Drugs.**—It has been ruled that imported drugs supplied by the Australian Government under the national health service must conform to the British Pharmacopœia. Statutory rules have been gazetted to apply to chloramphenicol, dihydrostreptomycin, penicillin, and streptomycin. An existing rule relating to morphine preparations has been amended to bring it into line with international drug conventions.

**Indian Drug Rules.**—Under amendments made to the Indian Drug Rules, 1945, those drugs included in Schedule H [amidopyrin, barbituric acid and derivatives, dinitrocresols, the sulphonamides, phenyl cinchonic acid, etc.] must now be labelled with the following words:—

### "SCHEDULE H DRUG

Warning—"To be sold by retail on the prescription of a registered medical practitioner only."

**West German Pharmaceutical Products.**—West Germany's pharmaceutical industry expects the value of its output in 1952 to be 10 or 15 per cent. higher than in 1951. The 1951 value was 756 million D-marks. Some 50 to 60 per cent. of the total output comprised packed pharmaceutical specialties. At present some 25 per cent. of total output is being exported. Packed pharmaceutical specialties have declined continuously and now amount to between 40 and 45 per cent. of total exports. Some 66 per cent. of exports go to European countries. West Germany's share in world pharmaceutical exports amounts to 7.5 per cent., against 35 per cent. before 1939. Chief pharmaceutical items which West Germany still needs to import in substantial quantities are all the antibiotics with the exception of penicillin.

**Brazilian Carnauba Wax Production.**—Prospects for a better-than-average carnauba wax crop in Brazil during 1952-53 continue, though a previous forecast of 13,200 short tons has been reduced to about 12,650 tons, according to the American Consulate at Fortaleza. The first cutting of carnauba fronds has been completed and the second is in progress. The size of the present cutting will be determined largely by the interest displayed in the crop. Production of carnauba in 1951-52 amounted to about 12,300 tons, and exports in 1951 were probably more than 10 per cent. below the record 14,033 tons shipped in 1950. Interest in the current crop is at present sustained by the financing and purchase programme initiated by the Brazilian Government in May 1952. There is no clear indication that the Government intends to buy or finance all stocks of wax that may be offered, though the programme has been extended to cover the current crop.

## TRADE MARKS

From the "Trade Marks Journal," December 31, 1952

For all goods (5)

CONTHYRIN, 710,677, by Glaxo Laboratories, Ltd., Greenford. ANORVIT, 712,736, by The British Drug Houses, Ltd., London, N.1. PYROTIBINE, RIMOTIBINE, EKAPHOSTONE, 712,769-73, by Lepetit Societa Per Azioni, Milan, Italy. HESPOITIN, 712,802, by Ashe Laboratories, Ltd., Leatherhead, Surrey.

For scientific instruments and apparatus (9)

PARAMET, 709,084, by Charles Hearson & Co., Ltd., London, S.E.1.

For x-ray apparatus, tubes and screens, for surgical, medical, dental and scientific purposes (10)  
PHILIPS on label device, 711,430-36, by Philips Electrical, Ltd., London, W.C.2.

For toothpicks (21)

DENPIC, 712,072, by Denpads, Ltd., Maidenhead.

From the "Trade Marks Journal," January 7

For pharmaceutical, veterinary and sanitary substances, medical and surgical plasters and bandaging materials (5)

NOVASPROUT, 710,432, by Naamlooze Vennootschap Noury & Van der Lande's Exploitatie Maatschappij, Dordrecht, Holland.

For optical and photographic instruments and apparatus (9)

LEPIDOPTIC, 712,248, by Cromwell Precision of Reading, Reading.

For brushes and combs (21)

ANDY PANDY, 712,703, by Andy Pandey, Ltd., London, W.1.

For rust-removing preparations (3)

TACOR, 710,665, by S. Tash Industrial Sales Service, London, S.W.1

For soap (3)

LITTLE MISS MUFFET, 712,697, by Gerard Brothers, Ltd., Nottingham.

For detergents (3)

DEBROSIL, 712,861, by Murphy & Son, Ltd., Wheathampstead.

For pharmaceutical, veterinary and sanitary products, infants' and invalids' foods, insecticides and fungicides (5)

DUPHAR, 708,975, by N. V. Philips-Roxane Pharmaceutisch-Chemische Industrie, Duphar, Weesp, Holland.

For pharmaceutical preparations (5)

DURADOC, 709,116, by Organon Laboratories, Ltd., London, W.C.2. COFLAVINASIL-A.M.N., 707,208, by Causyth, S.p.A., Milan, Italy. ISOTEBEN, PERISTON, 710,348-711,147, by Farbenfabriken Bayer, Leverkusen, Germany. ALKADRIIP, 711,879, by British Chemotheutic Products, Ltd., Bradford.

For medicated pills (5)

FORUM, 709,368, by Ernest Morley Dransfield, Huddersfield.

For medicated preparations (5)

CELAVITA, 711,384, by Maria Antoinette Louise Bernays, London, W.1.

For æstrogens, æstrogenic substances, hormones and hormone preparations (5)

TACE, 712,003, by the Wm. S. Merrell Co., Cincinnati, U.S.A.

For all goods (5)

CLOROMED, 712,538, by Peter Eric de Rees, London, W.1.

## COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

### Monday, January 19

CROYDON BRANCH, PHARMACEUTICAL SOCIETY, Wesleyan Church Hall, West Croydon, at 8 p.m. The Marquis of Ely on "Agiacolor" and demonstration of flash photography by a representative of the Photographic Dealers' Association.

FINCHLEY DIVISION, NORTH LONDON PHARMACEUTICAL ASSOCIATION, Bull and Butcher, Whetstone, London, N.20, at 8 p.m. Film show.

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, The Library, Beckenham, Kent, at 8 p.m. Consideration of resolutions for Branch Representatives' meeting.

### Tuesday, January 20

DARTFORD BRANCH, PHARMACEUTICAL SOCIETY, Wellcome Club, High Street, Dartford, at 8 p.m. Mr. W. P. Roberts (the Society's chief inspector) on "The Duties of the Society's Inspectors."

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Metropole Hotel, Leeds, at 7.30 p.m. Discussion on "Revised Code of Ethics."

SUNDERLAND BRANCH, PHARMACEUTICAL SOCIETY, Sunderland Technical College, at 7.30 p.m. "Photographic evening."

WEST MIDDLESEX CHEMISTS' ASSOCIATION and BRANCH, Feathers Hotel, The Broadway, Ealing, London, W.5, at 8 p.m. Lecture and demonstration on "Make-up and Cosmetics" by a representative of Yardley & Co., Ltd.

WOLVERHAMPTON BRANCH, NATIONAL PHARMACEUTICAL UNION, Old Wulfrunians' Club, Barclays Bank Chambers, Queen Square, Wolverhampton, at 7.30 p.m. Mr. H. Holmes (vice-chairman, N.P.U. Executive) on "The Dispensing Chemist: Freedom or Control?"

THIRD NATIONAL PACKAGING EXHIBITION, Olympia, London, W.14. Open until January 30.

### Wednesday, January 21

SCOTTISH DEPARTMENT, PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 36 York Place, Edinburgh, at 7.30 p.m. Mr. C. G. Drummond on "Pharmacy and Medicine in Old Edinburgh."

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, Grand Hotel, Sheffield, at 7.15 p.m. Film show and discussion on resolutions for Branch Representatives' meeting.

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Polygon Hotel, Southampton, at 6.45 for 7.15 p.m. Annual dinner and dance.

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION and NATIONAL ASSOCIATION OF WOMEN PHARMACEUTISTS, University College Hospital, Gower Street, London, W.C.1, at 6.30 p.m. Visit to pharmaceutical department. At 7.30 p.m. Dr. W. B. Purchase on "Some Experiences of a Coroner."

### Thursday, January 22

DUNDEE AND EASTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Empress Ballroom, Dundee, at 7.45 p.m. Dinner and dance.

KING'S LYNN BRANCH, NATIONAL PHARMACEUTICAL UNION, Grosvenor Hotel, King's Lynn, at 7.15 p.m. Discussion on "Statements on Professional Conduct and on Assistants."

LIVERPOOL BRANCH, CHEMICAL SOCIETY, chemistry lecture theatre, Liverpool University, at 5 p.m. Professor R. T. Williams on "Chemical Aspects of Drug Metabolism."

MANCHESTER PHARMACEUTICAL ASSOCIATION, Council Chamber, Houldsworth Hall, Manchester, at 7.30 p.m. Film show by courtesy of Abbott Laboratories, Ltd.

SOUTH-EAST LONDON CHEMISTS' ASSOCIATION, Pyne's restaurant, Lewisham Way, London, S.E.14, at 6.30 for 7 p.m. Annual dinner and dance.

### Friday, January 23

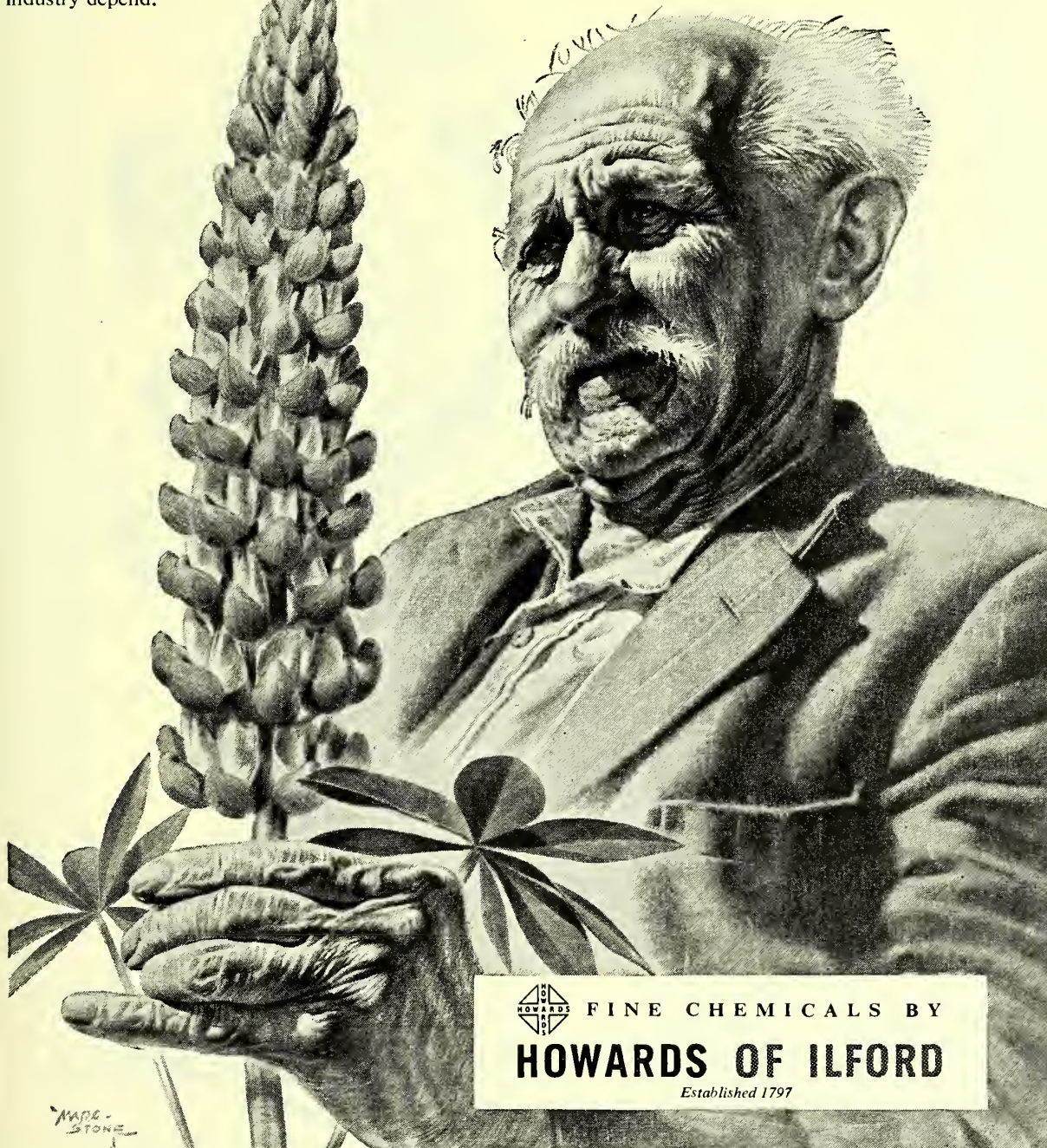
BIRKENHEAD AND WIRRAL PHARMACEUTISTS' ASSOCIATION, Central Hotel, Birkenhead, at 8 p.m. Illustrated address on "Finland and the Olympic Games."

HULL CHEMISTS' ASSOCIATION and BRANCHES, PHARMACEUTICAL SOCIETY, and NATIONAL PHARMACEUTICAL UNION, Imperial Hotel, Hull, at 8 p.m. Address by Mr. H. Steinman (a member of the Society's Council).

WIMBLEDON and THAMES VALLEY PHARMACEUTISTS' ASSOCIATIONS, Town Hall, Wimbledon, at 7.45 p.m. Joint meeting.



***Achievement in our time*** 'If you would see my monument look around you.' That is a proud epitaph indeed, and it might stand in any modern garden to mark the achievement of George Russell. For this great lover of flowers and wisely simple countryman has enriched the herbaceous border with the glorious Russell Lupins. With green and loving fingers he coaxed out of the plain blue flower a flood of hybrids that have left gardeners forever in his debt. *Achievement in our time* comes only as it always came—by mastery of technique based on knowledge and devotion. It is our conviction that this can also mark the attitude of a chemical house on which the health of men and the progress of industry depend.



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*Your profit: 6/6d. per doz.*



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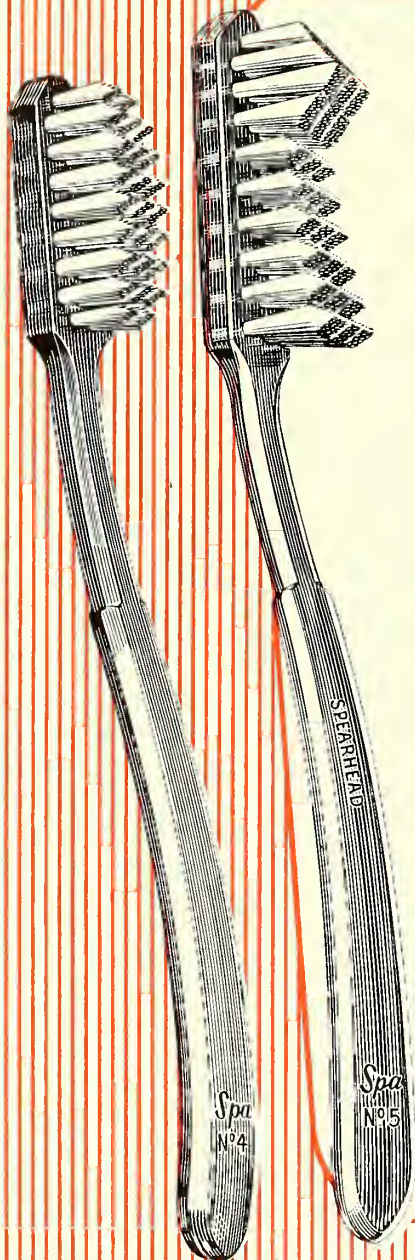


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SPARKLON, THE NEW, 'SHINY,' EXTRA-FLEXIBLE NYLON

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# \* IT GIVES YOU **85% PROFIT ON OUTLAY**

This year's SPA Toothbrush Bonus Offer has been styled to give you maximum profit for minimum outlay. Until March 31st you have to buy only 5 dozen SPA toothbrushes to receive a 6 dozen Bonus Parcel—2 dozen in finest Pure Bristle (Retail 2/3) and 4 dozen in SPARKLON, the new, shiny, extra-flexible Nylon (Retail still only 1/8). You get 85% net profit on these fast moving lines.

## REDUCED TRADE PRICES—BETTER QUALITY

YOU RECEIVE	YOU PAY	YOU TAKE
2 doz. Spa SPARKLON Toothbrushes No. 4	£1 - 5 - 0	£2 - 0 - 0
1 doz. Spa SPARKLON Spearhead Toothbrushes No. 5	12 - 6	1 - 0 - 0
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AND		
<b>1 dozen Spa SPARKLON Spearhead Toothbrushes No. 5 supplied free of charge</b>	- -	1 - 0 - 0
<b>Your profit £3 1 6 or 85% on cost</b>	£3 - 12 - 6	£6 - 14 - 0

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- 85% clear profit on cost

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HEADACHE-**

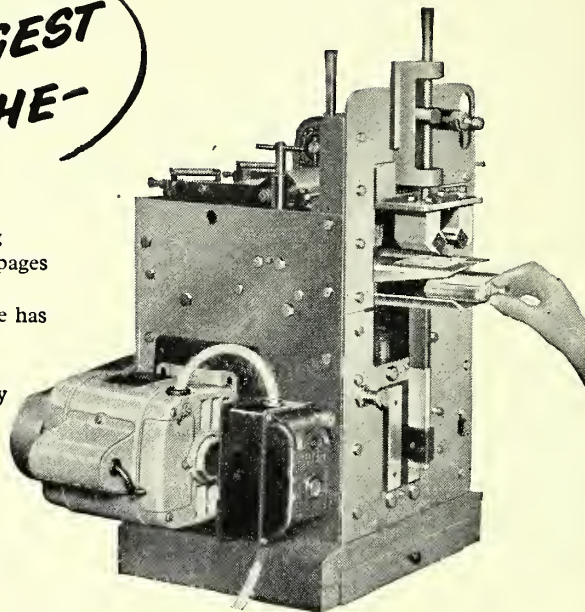
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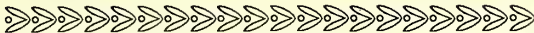
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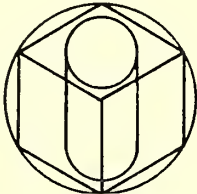
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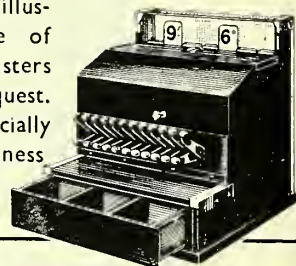
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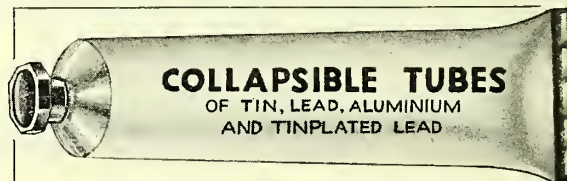
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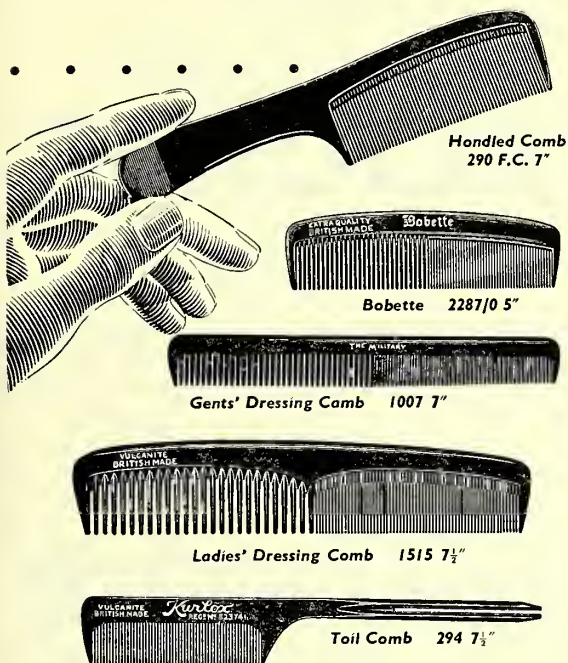
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White	5/6	5/7	6/3	6/9 doz.

Packed in divisional boxes  
of 12 bottles.

Fig. 801

Amber	$\frac{1}{4}$	$\frac{1}{2}$	1 oz.
	5/6	5/7	6/3 doz.

(Ideal for Penicillin Eye Drops)

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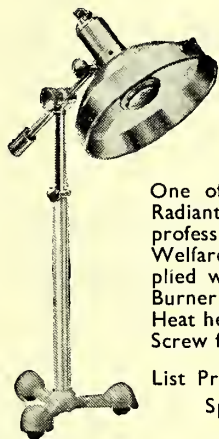
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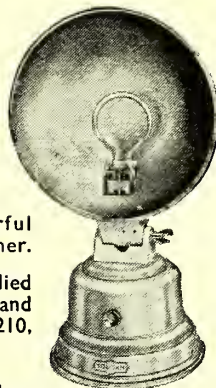
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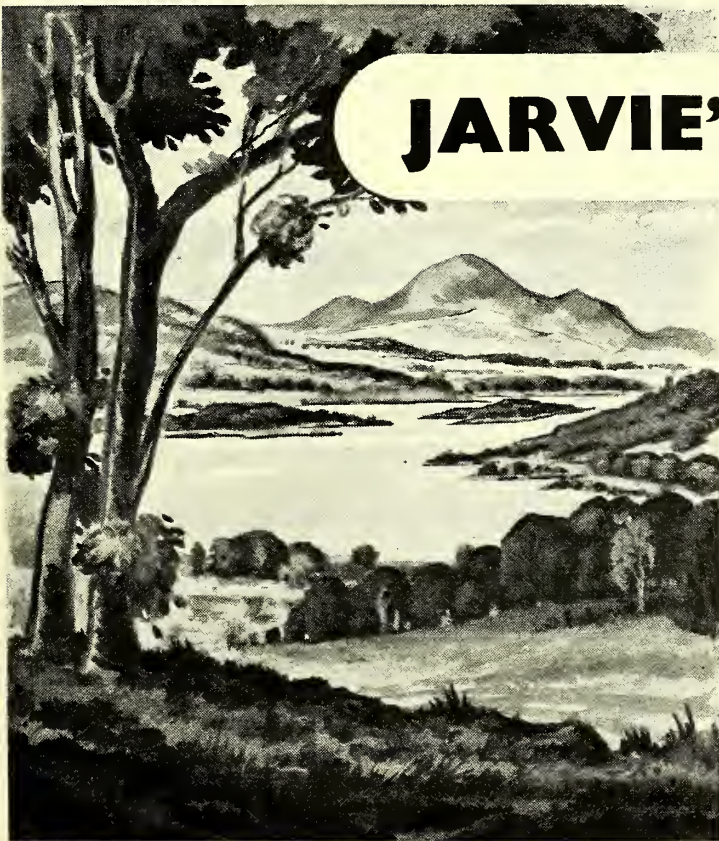
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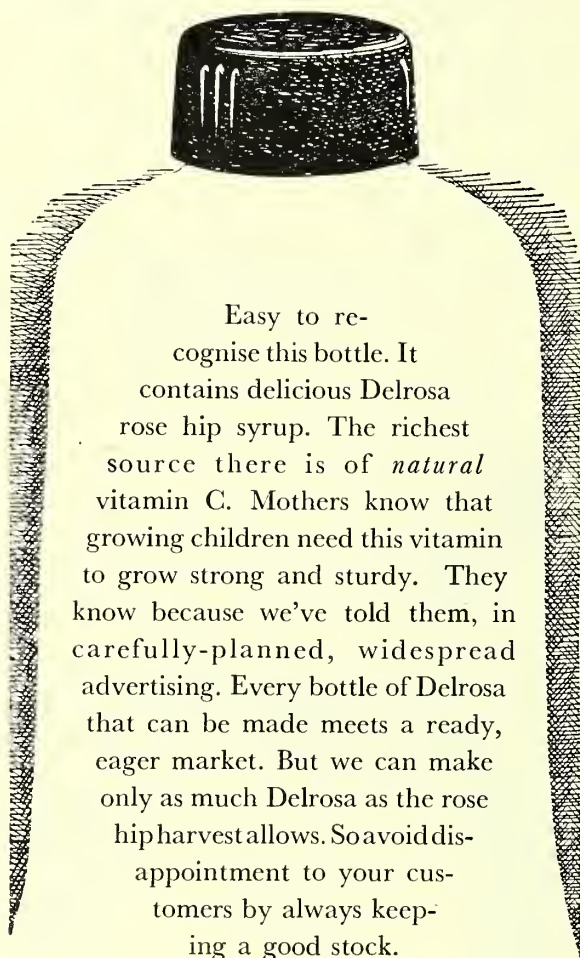
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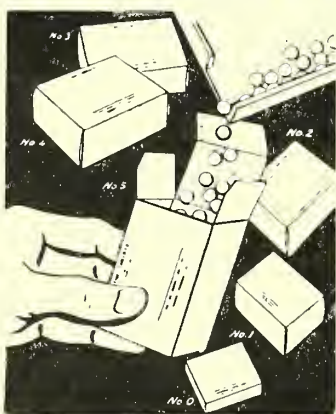
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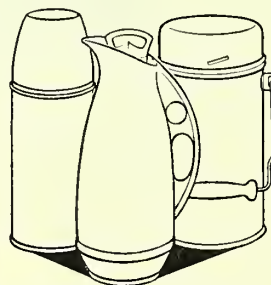
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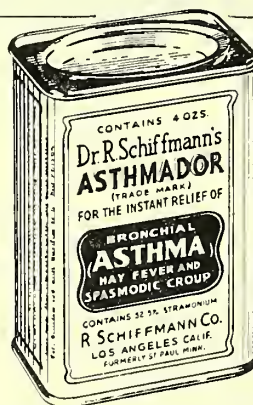
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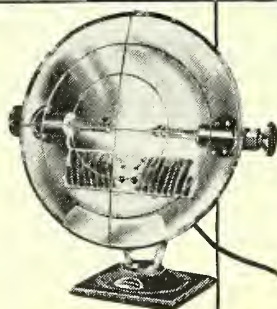
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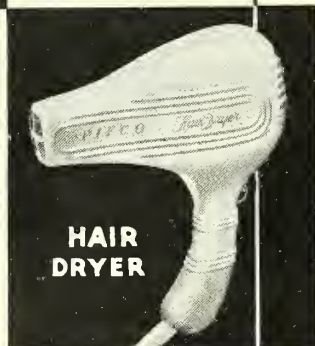
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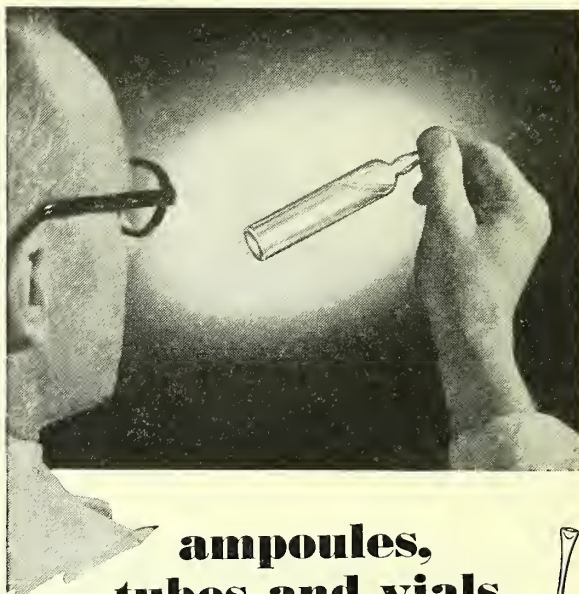
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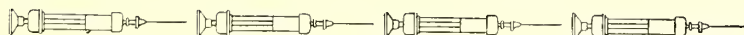
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C 3069

### APPOINTMENTS

18/- per half-inch (min.) and pro rata.  
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#### ADMIRALTY PHARMACISTS

Applications are invited from qualified pharmaceutical chemists or chemists and druggists for posts as pharmacists in R.N. hospitals and medical depôts at home and abroad. Salary scale £450 x £25—£575. Starting pay according to previous professional experience, but candidates under 23 would enter at appropriate point below minimum quoted. Allowance of £25 a year payable in addition to holders of recognised qualification higher than normal M.P.S. Foreign Service allowance payable overseas. Superannuation benefits under National Health Service (Superannuation) Regulations 1950: deduction of 6 per cent. made from salary on that account. Prospects of promotion to higher ranks. Apply to Medical Director-General of the Navy, Admiralty, Queen Anne's Mansions, London, S.W.1, mentioning this journal.

C 9919

#### BOSTON GENERAL HOSPITAL

**PHARMACIST** required to assist Chief Pharmacist in newly opened department situated at Boston General Hospital. All types of Hospitals served. Sterile work and manufacturing undertaken. Commencing salary £450-£500 p.a. according to age and experience, appointment subject to nationally negotiated conditions of service.

Apply, stating age, qualifications, details of previous appointments held (if any) and names of two referees to the Hospital Secretary, Boston General Hospital, South End, Boston. Lines.

C 9932

#### ENFIELD GROUP HOSPITAL MANAGEMENT COMMITTEE

Pharmacist required. Salary £450 at age 23 x £25 to £575 plus £25 for additional recognised qualifications. Whitley conditions.

Applications, giving full particulars and the names and addresses of two referees to the Secretary of the Management Committee at Chase Farm Hospital, The Ridgeway, Enfield, Middlesex, by 31st January, 1953.

C 9904

#### CENTRAL MIDDLESEX HOSPITAL, PARK ROYAL, N.W.10

POST-GRADUATE PUPIL required in Pharmaceutical Department. Salary £300 p.a. plus London Weighting. Detailed written applications to Chief Pharmacist, immediately.

C 9943

#### HACKNEY HOSPITAL, E.9

LOCUM PHARMACIST (qualified) wanted immediately. Write Group Secretary.

C 144

#### KINGSTON HOSPITAL, WOLVERTON AVENUE, KINGSTON-UPON-THAMES SENIOR PHARMACIST

Applications are invited for the appointment of Senior Pharmacist at the above hospital to supervise the production of sterile solutions and other preparations. Salary on the scale £525 x £25—£625 plus London Weighting. Conditions of Service in accordance with the Recommendations of the Pharmaceutical Whitley Council. The appointment will be vacant on the 2nd March, 1953, and applications, together with the names of two referees, should be sent as soon as possible to the Physician Superintendent.

C 9949

#### LINCOLN NO. 1 HOSPITAL MANAGEMENT COMMITTEE, COUNTY HOSPITAL, LINCOLN (200 beds)

Applications are invited for the post of Assistant in Dispensing holding the certificate of the Society of Apothecaries of London. Salary according to the Joint Negotiating Committee recommendations. The post is superannuable and the successful applicant will be required to undergo a medical examination.

Applications, stating age, qualifications and experience, together with copies of three recent testimonials should be forwarded to the undersigned as soon as possible.

R. W. HOWICK.

Group Secretary.  
C 9924

#### ST. PETER'S HOSPITAL, CHERTSEY, SURREY

##### APPOINTMENT OF PHARMACIST

Applications are invited from Registered Pharmacists for the above post at St. Peter's Hospital. Salary and conditions of service in accordance with Whitley Council decisions. Previous Hospital experience not essential.

Applications, stating age, qualifications and experience, together with names of two referees to be submitted to the Hospital Secretary at above address as soon as possible quoting reference C.D.

C 139

#### QUEEN MARY'S HOSPITAL FOR CHILDREN, CARSHALTON, SURREY

Pharmacist required. Salary scale £450 x £25—£575. Applications, stating age and experience, and enclosing copies of three testimonials, should be sent to the Secretary immediately.

C 9912

#### SOUTH OCKENDON GROUP HOSPITAL MANAGEMENT COMMITTEE

##### CHIEF PHARMACIST

Applications for the above appointment (full-time or part-time) are invited from persons whose names are on the Statutory Register of Pharmacists and who hold at least the normal pharmaceutical qualification (M.P.S.); salary scale (Category 1 Hospitals) and conditions of service in accordance with the Pharmaceutical Whitley Council.

Duties mainly and normally at the two major hospitals in the Group, viz., South Ockendon Hospital, nr. Uppminster, Essex, and Leytonstone House Hospital, High Road, London, E.11, but the officer will be required also to supervise pharmaceutical services for four other small hospitals.

Applications, stating (in order) full name and address, date of birth, qualifications, present and previous appointments (quote all relevant dates) general experience, etc., to be sent, not later than ten days after the appearance of this notice, to the Group Secretary to the Committee, Leytonstone House, High Road, London, E.11, together with the names and addresses of two referees or copies of two recent testimonials.

C 9925

#### THE ROYAL FREE HOSPITAL, GRAY'S INN ROAD

CLERK, Female, required in the Pharmaceutical Department to undertake general clerical duties including dispatch of orders, checking invoices, pricing, typing, etc. Salary on National Health Scale, Grade A, according to age. Applications, together with the names of two referees, should be addressed to the Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, W.C.1.

C 9903

#### WEST MIDDLESEX HOSPITAL (SOUTH-WEST MIDDLESEX HOSPITAL MANAGEMENT COMMITTEE)

Pharmacist required at above Hospital. Salary scale £450 x £25 to £575 plus London Weighting. Higher qualification allowance £25 per annum. Whitley conditions applicable. Applications, stating age, qualifications, and experience with names of two referees, to Chief Pharmacist, West Middlesex Hospital, Isleworth, Middlesex.

C 9907



**Appointments—Continued****WEST HAM GROUP HOSPITAL,  
MANAGEMENT COMMITTEE,  
STRATFORD, LONDON, E.15**

Applications are invited for the appointment of SENIOR PHARMACIST for duties at PLAISTOW HOSPITAL and QUEEN MARY'S HOSPITAL, under the direction of the Chief Pharmacist.

Salary £525 x £25 to £625 plus London Weighting. Conditions of service in accordance with Pharmaceutical Whitley Council. Applications, stating age, qualifications and full details of experience, together with the names of two referees should be sent to the undersigned as soon as possible.

M. J. HUNTLEY,  
Secretary.  
C 9884

**SITUATIONS OPEN**

8/6 for 36 words (min.) then 3d. per word.  
Box 2/-

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

**RETAIL (HOME)**

ASCOTTS PHARMACIES invite applications from Pharmacists wishing to take up appointments as managers in London and suburbs. Good salaries and commission, pension scheme. Living accommodation if required. Applications to Ascotts Pharmacies, Ltd., Wembley, C 3073  
**HOLBORN, W.C.1.** Young lady required for toilet counter, with or without previous experience. Saturday half-day; salary according to age and experience. Apply to Mr. J. Milner, A. R. Cross, Ltd., 240-1 High Holborn, W.C.1, or telephone Holborn 7379 for an appointment. C 3015

**LEIFDS.** Vacancy will occur shortly for an experienced assistant, salary and commission, no rota duties. Hirst, 365 Harehills Lane, Leeds, 9. C 3087

**LONDON.** Unqualified assistant, male or female, required by small progressive multiple concern, good salary and prospects to right person. Apply P. T. Harris, Ltd., 169 Kensington High St. Tel.: Wes. 3820. C 3018

**LONDON CO-OPERATIVE CHEMISTS** have vacancies for recently qualified pharmacists to train as branch managers in the London area. Good opportunities for ambitious men with progressive organisation. Generous salary and expenses during training. Permanencies and superannuation benefits arranged as soon as efficient. Applications in first instance, giving details of experience, etc., to Superintendent Chemist, Grange Road, Leyton, London, E.10. C 3083

**MUSWELL HILL (near).** Experienced counter assistant (either sex) required for substantial business; must possess pleasing personality and accustomed to giving quick counter service; good opportunity and prospects for suitable applicant. All replies treated in strict confidence. Box C 9955.

**SOMERSET.** Qualified manager required for modern well-fitted pharmacy, in central position of country town. Good accommodation and garden. Excellent salary and commission for the right man. Application, with details of previous experience to: Rossiters Pharmacies, Ltd., 2 Bampton Street, Tiverton, Devon, Tel. 2752. C 3076

**UNQUALIFIED ASSISTANT** as window dresser and to assist at counter. Box C 3055.

**UNQUALIFIED LADY** dispenser required, also to assist at counter. Salary and commission. Give previous experience and salary required. Watkins, Chemist, 3 Stile Hall Parade, Chiswick. C 3075

**UNQUALIFIED FEMALE** assistant, for counter and dispensing duties, wanted by end of March. State age, experience and salary expected, by letter, to W. J. Boyes, Ltd., 61 Balham Hill, S.W.12. C 3088

**UNQUALIFIED LADY** required, experienced dispensing, counter, window-dressing. Full particulars to H. H. Dickman & Son, 224 High Street, Berkhamsted, Herts. C 3078

**WHOLESALE**

(1) **WAREHOUSE DISPATCH CLERK** required for preparing orders for dispatch by motor delivery van. Must have previous experience in the trade (surgical instruments, dressings, cotton wool, etc., and possess knowledge of chemist and druggist sundries. (2) Warehouse dispatch clerk for preparing and dispatching orders by post, also dealing with all inward goods received. Applicants to apply to the Secretary, James L. Hatrick & Co. (London), Ltd., 58 Britton Street, Clerkenwell, E.C.1. Tel.: Clerkenwell 6727. C 9937

**A LADY** surgical fitter required by old-established London firm situated West End. Good salary and permanent position. Knowledge of trusses, belts and hosiery essential. Write Box C 143.

**AN EXCELLENT OPPORTUNITY** occurs for a first-class sales representative to cover the Southern Home Counties area for a reputable cosmetic house. Applicants must have experience of calling on retail and wholesale chemists, also departmental stores. Preference will be given to a man with knowledge of the cosmetic trade. Car owner essential. The appointment is permanent and progressive, carrying a salary, commission and hotel expenses, plus generous car allowance. Write Box CD 988, L.P.E., 110 St. Martin's Lane, W.C.2. C 9951  
**ASPRO, LIMITED,** Slough, require the services of a fully qualified technician with considerable knowledge of the pharmaceutical and/or food industries. Must have practical experience and be capable of organising and operating a technical team in predetermined channels of research and development. Salary according to qualifications and experience. C 9941

**BIOREX LABORATORIES, LIMITED,** have a vacancy for an experienced drugs, galenicals, tablets, etc., assembler with some knowledge of ethicals. The applicant must be conversant with B.P. and B.P.C. preparations. Some previous retail dispensing experience might prove an asset in this post. Apply, with full particulars, age, experience, salary, to 51 Exmouth Street, E.C.1. Phone: Terminus 1341. C 3070

**BIOREX LABORATORIES, LIMITED,** wholesale and manufacturing chemists of 51 Exmouth Street, E.C.1, require representative to call on chemists and hospitals; must have established connection and experience in selling drugs, galenicals, dressings, plasters, proprietaries and chemist sundries. Car owner. Some Home Counties and London territories vacant. Salary, commission and expenses. C 3072

**BOOTS PURE DRUG CO., LTD.,** invite applications from male and female pharmacists for positions in their pharmaceutical manufacturing laboratories at Nottingham. Preference will be given to applicants under 30 years of age and commencing salaries will be according to age and experience. Positions are permanent and pensionable and offer good prospects. Applications to Personnel Manager, Station Street, Nottingham. C 9954

**EVANS MEDICAL SUPPLIES, LTD.,** have a vacancy for a representative to call on chemists in the North-west of England. Applicants must be under 35 years of age with recent experience of retail pharmacy. Apply, in writing, to the Home Sales Director, Evans Medical Supplies, Ltd., Speke, Liverpool, giving full details of career. C 9905

**LONDON AREA,** representative for old-established manufacturing chemists. Must have connections amongst chemists, grocers, ironmongers and hardware stores. Established territory, with numerous accounts to be handed over. Good salary, expenses, commission and vehicle provided. Box C 9936.

**EVANS MEDICAL SUPPLIES, LTD.,** have a vacancy for a medical representative for Central Scotland. Applicants should possess a pharmaceutical qualification and should not be over 35 years of age. Residence on the territory will be desired. Car provided. Pension scheme in operation. Full details of education, experience and qualifications to Home Sales Director, Evans Medical Supplies, Ltd., Speke, Liverpool, 19. C 9906

**JOHNSON & JOHNSON (Gt. Britain), Ltd.,** are rapidly extending their industrial division, and have vacancies for really first-class salesmen to cover (1) South Wales and (2) Lancs, Cheshire and North Wales. Salesmen with experience in packaging and contact with industrial consumers are required. This is a progressive position with excellent salary, commission and expenses. Car essential. Full particulars of experience and connections to Industrial Sales Manager, Johnson & Johnson (Gt. Britain), Ltd., Slough, Bucks. C 9950

**MANAGER REQUIRED** for invoicing and pricing department. Five-day week. Pension scheme. Apply, in writing only, stating experience, age and salary required to Personnel Department, The Crookes Laboratories, Ltd., Gorst Road, Park Royal, London, N.W.10. C 9953

**OPPORTUNITY OCCURS** for experienced representatives to handle new product on commission basis. Gentlemen with good connections, retail, wholesale and stores required all areas. Please state in confidence other lines carried and territory covered to Sales Manager. Box C 3050.

**REPRESENTATIVE** required for South Coast area to take over existing accounts due to redistribution of territories. This is a remunerative and permanent position and only men with excellent references will be considered.

Write giving age and previous experience in confidence to Managing Director, Vernon Powell Limited, Selsdon Road, Croydon.

C 3038

**REPRESENTATIVE** required for leading manufacturers and distributors of toilet and pharmaceutical preparations. Must reside within easy reach of Liverpool. Salary, commission and expenses. Write stating age and qualifications to Box C 9930.

**REPRESENTATIVE** required for south coast by well-known firm of manufacturing chemists. Excellent salary and commission for man with "live" accounts. Write, giving age, experience and present remuneration to Box C 9935.

**REPRESENTATIVE** required by firm of toilet soap makers and perfumers for the Southern Counties. Opportunity for energetic man to take over existing accounts and produce results on Commission basis. Write in confidence giving full particulars and present agencies to: Sales Manager, Box C 3060.

**REPRESENTATIVE REQUIRED.** Experienced salesman in the hulk and packed tablet field having a good connection with Scottish chemists, particularly Glasgow and the West of Scotland. First-class salary and commission for first-class man. Box C 3077.

**REPRESENTATIVE REQUIRED** (London area) by a South London house of hospital and laboratory furnishers and scientific glassware manufacturers. Salary £10 per week plus commission and travelling expenses. Applicant must be experienced with sound knowledge of the trade. Applications will be given strictest confidence. Box C 3070.

**WANTED TO PURCHASE****PHARMACEUTICAL MANUFACTURING BUSINESS  
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**BUSINESS BROKERS LIMITED,** 46 St. James's Place, London, S.W.1 (REGent 4720 and 5418) C9759



**Situations Open—Continued**

**REPRESENTATIVE:** An opportunity occurs for a qualified pharmacist (age 25-35) to join a well-known firm of chemical manufacturers near London as a representative in the Glasgow area. The duties will include interviewing doctors, hospitals and chemists. The position is permanent and carries a basic salary, bonus, provision for expenses and a contributory pension scheme. Applicants should give full details of qualifications and experience to Box C 9908.

**REPRESENTATIVES** required with live connections chemists and stores by old-established firm of toilet soap makers on commission basis. Write in confidence stating particulars existing agencies and territories to: Sales Manager, Box C 3059.

**S.W. LONDON AREA.** A well-known ethical house requires the services of a first-class man for medical propaganda work on this territory. Previous experience desirable but candidates with thorough knowledge of territory and good pharmaceutical background are invited to apply. Our staff know of this advertisement. Box C 9952.

**SANDOZ PRODUCTS, LTD.,** Pharmaceutical Department, invite immediate applications from qualified pharmacists or science graduates, for the post of medical representative in the following areas: (1) Glasgow and Western Scotland; (2) Bristol; (3) Essex and North Eastern London; (4) Beds, Herts, Middlesex and part of North Western London. Ph.C. degree preferable; age not exceeding 28. Salary commensurate with experience. Non-qualified applicants are requested to abstain. Please send full personal details with photograph to the Personnel Manager, Sandoz Products, Ltd., 134 Wigmore Street, London, W.1. C 9938

**THE BRITISH DRUG HOUSES, LTD.,** invite applications from pharmacists for the position of medical representative in East Lancashire. Applications should be addressed to HAC/WKW, The British Drug Houses, Ltd., Graham St., City Road, London, N.1. C 9913

**WANTED:** Exceptionally keen representatives for the sale of surgical dressings to wholesale and retail chemists in the following areas:—(1) Surrey and London (South of the Thames), (2) Devon and Cornwall, (3) Shropshire, Herefordshire and mid-Wales, (4) Cheshire and North Wales, (5) Lancashire, (6) Staffordshire, Warwickshire and Worcestershire, (7) Nottinghamshire, Leicestershire and Rutland. Attractive commissions on sales. Box C 3061.

**"WEE-KURA"** 11d. corn pads (Knaresboro') 78/- plus 1/2 (5 per cent. cheque with order), have openings for salesmen (not callers) for the best corn pad in Britain and sure repeat orders. Commission paid weekly or monthly and on all repeats from wholesalers and retail. Full details of lines carried, etc. C 3079

**WHOLESALE (OVERSEAS)**

**BEECHAM GROUP LIMITED** are recruiting production executives with pharmaceutical qualifications (preferably B.Pharm. degree or Ph.C. diploma) for service in their overseas factories in the Eastern and Western Hemispheres. Prior to taking up an overseas appointment, arrangements will be made for successful applicants to acquire product and process experience in home factories of the Group. The posts are pensionable and offer excellent opportunities for advancement. Reply, in the first instance, with full particulars to Beecham Group Limited, Technical Division, Amami Buildings, North Circular Road, West Tuford, N.W.10. C 9933

**BURROUGHS WELLCOME & CO.** require a production manager to take charge of pharmaceutical production in Bombay. Applicants must have energy, initiative and production and managerial experience in the industry. Opportunity for progress, good salary, pension scheme and periodical long home leave. Apply, giving age and full particulars to Managing Director, 183-193 Euston Rd., N.W.1. C 9947

**GLAXO LABORATORIES, LTD. INDIA**

Applications are invited from pharmacists for responsible and progressive positions in India. Previous experience of sales or medical representative work desirable. Candidates should preferably be single men not over 30 years of age. Preliminary training in U.K. will be given. First-class sea or air passage; outfit allowance; tours of duty three years followed by six months' home leave. Excellent starting salary and generous allowances. Suitably qualified applicants should write to Senior Personnel Officer, Glaxo Laboratories, Ltd., Greenford, Middlesex. C 9939

**SITUATIONS WANTED**

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Box 1/-

**RETAIL (HOME)**

**ASSISTANT, UNQUALIFIED,** six years served in busy pharmacy in N.1. seeks position in London. State terms, Box C 3095.

**WHOLESALE****EXECUTIVE—OVERSEAS**

**B.A., B.Sc., B.Pharm.,** age 37, presently employed manager Far East, of international pharmaceutical manufacturers seeks similar appointment overseas, preferably Far East, offering greater scope. Thorough knowledge of marketing pharmaceutical specialties in many overseas markets, fully experienced in training representatives, appointing agents, etc. Write Box C 3003

**EXPERIENCED REPRESENTATIVE** open to represent reputable firm. Full- or part-time. South Wales area. Box C 3085.

**LONDON** representative, live connections with chemists, seeks position requiring ability, initiative and hard work, available shortly; also experienced in medical, dental and clinic propaganda. Box C 3056.

**REPRESENTATIVE,** age 27, excellent connections all chemists Bucks, Beds, Herts. Five years with firm of high repute selling surgical dressings, S.T.'s and sundries, seeks similar position. Proved sales record. Box C 3067.

**REPRESENTATIVE S/MANAGER,** 50, car owner. Goodwill many London stores, chemists, hardware traders, desires change. Salary, commission. Box C 3049.

**SCOTLAND.** Representative, 20 years' established connection wholesale and retail chemists desires change. Agencies, reputable firms considered. Box C 3037.

**REPRESENTATIVE** covering hospitals and councils in Southern England able to handle quality products. Box C 3065.

**SALES MANAGER,** 29, with wide export, wholesale and retail chemist connections, seeks rewarding appointment. Forceful administrator, excellent sales record, first-class references. Box C 3057.

**TABLET MAKER** and coater (22 years), two and a half years' experience Manesty rotaries, sugar coating, etc., seeks change to further experience. Details. Box C 3028.

**YORKSHIRE.** Representative, 20 years' established connection wholesale and retail chemists, stores and co-operative societies. Reasonable salary, expenses. Box C 3092.

**AGENCIES**

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Box 2/-

**AGENTS** covering retail chemists, opticians, etc., required by important sunglasses manufacturers, exclusive coronation range, 10 per cent. commission. Areas available: Blackpool, Bristol, Newcastle, Norwich and Midlands. Samples ready. Box C 3017.

**AGENT-REPRESENTATIVE** required by chemists' printing and paper works, with established connection among chemists in London and Home Counties. No objection to non-competitive lines being carried. Training and full support given where necessary. Box C 3081.

**AGENTS REQUIRED** with existing connections to carry good quality cellophane wrapped face cloths in Potteries, Midlands, East Anglia, North Ireland, Isle of Man, South Wales, Channels. Good commission. Selling well in areas already covered. Write Box C 3084.

**COMMISSION AGENTS** wanted, all areas. Calling on wholesale and retail chemists for British-made infra-red and radiant heat health lamps. Quality lamps at attractive competitive prices. Please send fullest details, with exact area covered. Box C 9942.

**MANUFACTURERS** of unique proprietary which has quickly become a best seller in Southern England wish to appoint agents able to carry additional line in remaining areas of British Isles. Product is exempt purchase tax and sells on sight. An existing sound connection with private and multiple pharmacies, etc., essential. Please send full particulars and area covered. Box C 3080.

**POTTER & MOORE** require a first-class experienced agent to call on wholesale and retail chemists, stores, etc., in Northern Ireland. Apply, in writing, with full particulars as to age, lines at present carried, frequency of calls, etc., to Sales Manager, Lavender House, Seymour Road, London, E.10. C 9940

**SOUTHERN IRELAND.** Small active growing concern with headquarters in Dublin, seeks sole selling rights from manufacturer of non-ethical goods for pharmaceutical trade. This is an opportunity to take advantage of a valuable and ever-growing connection. Box C 3074.

**WANTED:** Agents calling on chemist shops, to carry additional cheap popular fancy article. All counties, full details, Box C 9944.

**WELL-KNOWN** London cosmetic and perfumery house is desirous of appointing manufacturers' agents in the following territories: South-western counties, North Midland counties, Eastern counties and South-eastern counties. Write Box A.274, R. S. Caplin, Ltd., 128 Park Lane, London, W.1. C 9948

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**WELL-ESTABLISHED** Dutch import firm in heavy-, fine- and pharmaceutical chemicals, require agencies for Holland and/or other continental countries for British manufacturers. Further particulars on request. Please write to Box C 3063.

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**FINE CHEMICAL MANUFACTURERS** of international repute with space, plant and technical staff available are prepared to consider the manufacture of new lines by arrangement with principals only. Service could be augmented by packaging if required. Negotiations in strictest confidence. Reply to Box C 9889. **PRE-WAR** leading manufacturers whose only competitor now dominates market require national distributing company to undertake marketing of their once immensely profitable branded lines. Complete confidence essential. Box C 3032. **WELL-KNOWN** manufacturing chemists, perfumers, and packers to the trade, offer facilities for packing all types of pharmaceutical products, toilet preparations, etc., etc. All enquiries treated with strict confidence. Any type of packing or manufacturing undertaken. F. M. Langford, Ltd., 40/41 Wellclose Square, London, E.1. Telephone: Royal 4743 or 4744. C 3058

**WANTED**

17/6 for 36 words (min.) then 4d. per word.  
Box 2/-

**SURPLUS STOCKS** of chemists' sundries required. Please send samples and details to W. E. W. S., Ltd., 18 Broadwick St., W.1. C 3090

**TUBE AND OINTMENT** hand filler and small Wilkinson's ointment mill or similar. Apply to Biorex Laboratories, Ltd., 51 Exmouth Mkt., E.C.1., or phone Terminus 9494. C 3089  
**WANTED:** Virgin polyethylene, both for extrusion and injection, 20 tons boric acid technically pure 99.5 per cent. fine powder. Box C 9934.

**WANTED.** Surplus or redundant merchandise, clearance goods of any description or discontinued lines. Cash immediately, no delay. Our representative will be pleased to call or, alternatively, please send samples with particulars, quantity and price. Lawrence Edwards & Co., 6-7 Wellington Close, Ledbury Rd., London, W.11. Telephone: Bayswater 4020. C 140

**MISCELLANEOUS SALES**

17/6 for 36 words (min.) then 4d. per word.  
Box 2/-

**20 GROSS** second-hand 80 and 90 ounce Winchester, amber and white screw and cork mouths unwashed otherwise sound. 30/- per gross ex warehouse Cardiff. Box C 3094.

**1-OZ. BAKELITE POTS** with black enamel caps at 12/6 per gross, carriage paid. Very useful for N.H.S. work, creams, ointments, tablets, etc. Bryten Products, Ltd., Nettlefold Place, London, S.E.27. C 3066

**FOR DISPOSAL.** Chemists' fittings fixtures and appurtenances. Ideal for young chemist starting own business. Apply Attwood Bros., Ltd., 110 Chatsworth Rd., Clapton, London, E.5. C 3086

**FOR SALE:** Addis Nylon Tooth-brushes, sealed cartons of 500 at £7 per carton, carriage paid home. Selwyn, Ltd., Northwich. C 3062

**FLINT BOTTLES,** 12 gross amber, 1 oz. with tops separate, for disposal, perfect condition, crated and straw packed. No offer refused. Write to Robinson, Grenville, Egham, Surrey, or phone: Egham 3055. C 3082

**MICROSCOPES.** Highest prices paid for good modern types. Send or bring your equipment for valuation. Wallace Heaton, Ltd., 127 New Bond Street, W.1. (May, 7511). C 9918

**MODERN CHEMIST SHOP** fittings, drug ranges, wallcases with frameless sliding doors, display counters and showcases; all styles of window fittings and display stands, D. Matthews & Son, Ltd., Complete Chemist Shop Fitters and Shop Front Builders, 14-16 Manchester St., Liverpool. C 141

**SPECIAL CLEARANCE OFFER.** 4/6 (retail) Rooney's Soft Nylon Baby Hair Brushes, 21/- doz. 5/- (retail) Rooney's Pure Bristle Nail Brushes, 21/- doz. 1/6 (retail) "Quiz" Nylon Tooth-brushes, 7/6 doz. All absolutely brand new and immaculate. £2 carriage paid. C.W.O. or C.O.D. Shelleys, Central Stores, Caldmore, Walsall. C 3068

**STANDARD Saccharin Tablets,** in packets of 100 and 200. Now the cheapest price for small and large quantities. Name and address printed at no extra charge. Samples and quotations from: Tell Products, Ltd., Welbeck Works, 93 Cobbold Road, London, N.W.2. Telephone: Willesden 6873. C 6

**PREMISES TO LET**

**EAST COAST RESORT.** New housing estate, estimated population 10,000. Shop and maisonette to let as sole chemist among multiple food traders. Further details Box C 3064.

**SALES BY AUCTION**

18/- per half-inch (min.) and pro rata.  
Box 2/-

**B. NORMAN & SON,** 2/5 Little Britain (Close to G.P.O.). London, E.C.1., will sell by Auction on Wednesday, January 28, at 1.30 p.m., excellent modern shop fittings including drug runs, wall and centre showcases, plate glass counters, mirrors, display stands, office furniture, etc. View day prior. Catalogues (3d. post free) on application. C 9931

**PUBLIC NOTICE**

18/- per half-inch (min.) and pro rata.  
Box 2/-

**IN BANKRUPTCY.** Re Ernest Laremont Fleming carrying on business at Warrington, in the County of Lancaster, Borax Manufacturer. Liverpool, No. 46 of 1886.

**NOTICE IS HEREBY GIVEN** THAT A Dividend is about to be declared in the Bankruptcy of the above-named. All persons who have claims against the bankrupt at the date of the receiving order (4th May, 1886) are required on or before the 31st day of January, 1953, to notify me of such claims and if so required in writing from me to prove their said claims at such time and place as shall be specified in such notice or in default thereof they will be excluded from the benefit of any distribution made before such debts are proved.

Dated this 17th day of January, 1953.

A. Kenneth Ferguson

(Official Receiver and Trustee)

West Africa House,

25 Water Street,

Liverpool, 2.

C 9946

**STOCKTAKING**

17/6 for 36 words (min.) then 4d. per word.  
Box 2/-

**QUIET** and accurate workmanship. Over 30 years' practical experience. Detailed inventories supplied to suit your individual requirements. Your own stock sheets priced. Terms moderate. C. W. Playfoot, 8 Aylward Rd., London, S.W.20. Phone: Liberty 4104. C 3034

**MISCELLANEOUS**

**THE GUILD OF DISPENSERS.** Unregistered dispensers are urged to join their own active organisation which aims at statutory recognition. Membership 2s. 6d. only. Details: Secretary, Wm. Solomon, 41 Connaught Sq., Marble Arch, W.2. C 9945

# The C and D WEEKLY LIST OF PRICE CHANGES

A = Advanced; I.R.P. = Inclusive Retail Price; \* = Tax 33½ per cent.

**CUXSON GERRARD & CO., LTD.** (Corrected note)  
Minster brand indigestion tablets\* 2-oz. 7 0 1 1 4

**GILLETTE INDUSTRIES, LTD.** (corrected note)

THE prices of the ten- and twenty-blade Gillette dispensers quoted in the C. & D. Supplement January 3, 1953, were correct but not advanced as shown.

**MENLEY & JAMES, LTD.**

Furacin car solution.  
1 fl. oz. bottle with dropper 51 9 5 9

**P.A.T.A. PROTECTED LIST****Part 1**

**MUSTEROLE FINE PRODUCTS CO., LTD.**  
THE prices of children's Musterole\* are now

the same as for the normal pack:—  
Doz. I.R.P.  
22 9 3 2

**UNICHEM, LTD.** (Additions)  
Duo-Gestan lozenges\* 11 6 1 9  
Duo-Gestan livertone tablets\* 33 0 5 0

**Part 2**

**THOMAS HARLEY, LTD.**  
BONUS offer to retailers:—From January 24-31, a bonus of one free tin will be given on all orders for 1 doz. Rodine rat poisons. The offer will operate in Great Britain, Northern Ireland and the Irish Republic.

**MACLEANS, LTD.** (Addition)  
Macleans peroxide tooth-paste with chlorophyll\* 14 3 2 0

**Deletions:—**  
Part 1  
**CEEGL RUBBER CO.**  
Ceegl contraceptive set.

Part 2  
**ICILMA CO., LTD.**  
Icilma toilet preparations.

**NEW PRODUCTS AND PACKS**

**BURROUGHS WELLCOME & CO.** (from January 19)  
Wellcome brand whooping-cough vaccine, ampoules, 3 x 1 c.c. 5 8  
rubber-capped vial, 10-c.c. 10 0  
**D. & W. GIBBS, LTD.**  
Gibbs chlorophyll dentifrice 1 0

**THE BRITISH DRUG HOUSES, LTD.**  
Tercin tablets, 200 5 6  
1,000 26 0



# CARNEGIE

*Manufacturers of Fine Chemicals*



ADRENALINE	HYOSCINE HYDROBROMIDE
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ALÖIN	ISONIAZID
AMINOPHYLLINE	ISOPRENALINE
ATROPINE & SALTS	KHELLIN
BISMUTH SALTS	LITHIUM SALTS
BROMISOVALERYLUREA	P.A.S.
CAFFEINE & SALTS	PODOPHYLLIN RESIN
CHLORAL HYDRATE	SALICYLATES
CHRYSAROBIN	SANTONIN
CITRATES	STRYCHNINE & SALTS
EPHEDRINE & SALTS	THEOBROMINE & SALTS
ESERINE & SALTS	THEOPHYLLINE & SALTS
	ETC.

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## CARNEGIE CHEMICALS (WELWYN) LTD

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Telephone : WELWYN GARDEN 506 (4 lines)

*A 'Carnegies of Welwyn' Company*



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**CHEMIST AND DRUGGIST**

JANUARY 17 1953



**Optabs**  
**EYE LOTION TABLETS**

OPTABS EYE LOTION TABLETS are now available in delightful new packing and **KEEP PERFECTLY**

**20 Tablets retail at 1/9**

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